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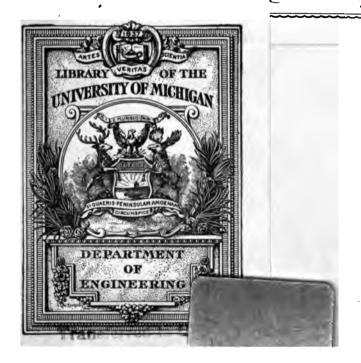
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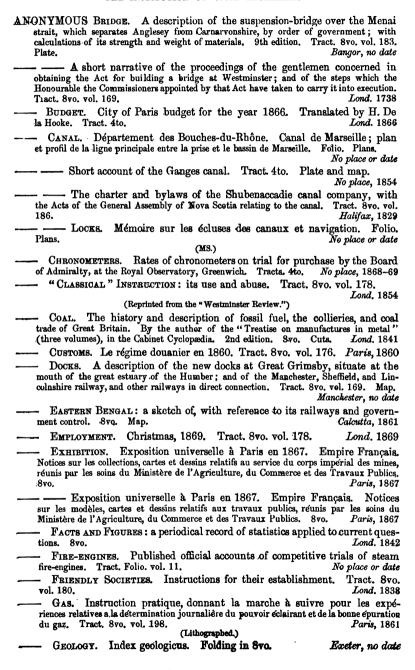
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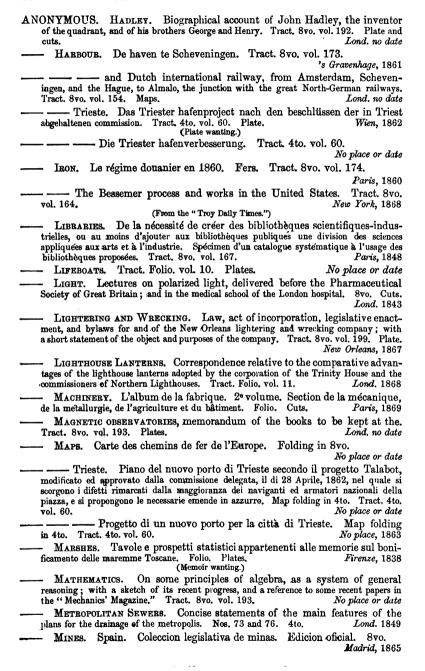
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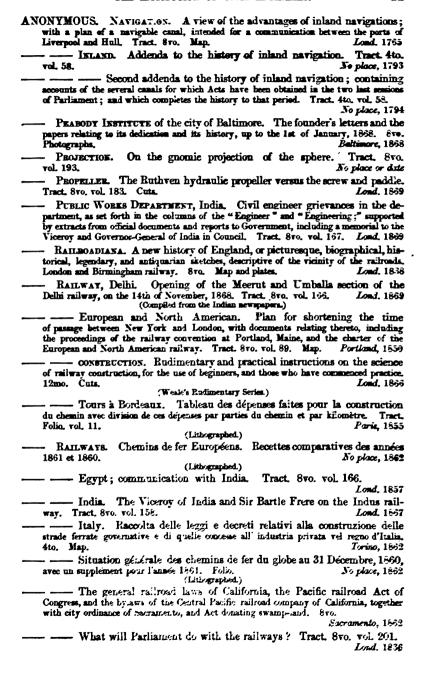
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- BEECHEY, Captain F. W. Remarks upon the tidal phenomena of the river Severn, and a description of the strata passed through in boring into the bed of the river. Tract. Folio.
- BEET-SUGAR. Vide PORTER.
- BÉGAT, P. Traité de géodésie à l'usage des marins, ou méthodes et formules trigonométriques relatives au levé et à la construction des cartes hydrographiques. 8vo.
- BELANGER, J. B. Résumé de leçons de géométrie analytique et de calcul infinitésimal, comprenant sur la trigonométrie, sur l'expression des lieux géométriques par leurs équations, sur le calcul différentiel et sur le calcul intégral, l'exposition des connaissances nécessaires aux ingénieurs pour l'intelligence de la mécanique rationelle, de l'hydraulique et de la théorie dynamique des machines. 2° édition. 8vo. Plates. Paris, 1859

- Théorie de la résistance et de la flexion plane des solides dont les dimensions transversales sont petites relativement à leur longueur. 8vo. Plates. Paris, 1858
- BELCHER, Captain Sir E., R.N. (Belsher). Narrative of a voyage round the world, performed in Her Majesty's ship "Sulphur," during the years 1836-1842. 4 vols. 8vo. Plates and cuts.

 Lond. 1848
- BELDA, M. Memoria sobre el estado de los ferro-carriles en España en 31 de Diciembre de 1866. Folio. Madrid, 1867
- BELGIUM, climate of. Vide QUETELET.
- BELGRAND, E. Recherches statistiques sur les sources du bassin de la Seine qu'il est possible de conduire à Paris, exécutées en 1854 d'après les ordres de M, le Préfet de la Seine. 4to. Maps and cuts. Paris, 1854
- BELIDOR, B. F. de. La science des ingénieurs dans la conduite des travaux de fortification et d'architecture civile. 2 vols. 4to. Plates. Paris, 1729
- · Ditto, La science des ingénieurs dans la conduite des travaux de fortification et d'architecture civile. 2 vols. 4to. Plates. Paris. 1789
- Œuvres diverses concernant l'artillerie et la génie. 8vo. Plates.

Amsterdam and Leipzig, 1764

- BELL, I. L. A paper on our foreign competitors in the iron trade. Read to the North of England ironmasters, at their quarterly meeting, held at Newcastle-on-Tyne, Sept. 29, 1868. Tract. 8vo. vol. 174.

 Newcastle-on-Tyne, no date
- On the development and appropriation of heat in iron blast-furnaces of different dimensions; being papers read before the members of the Iron and Steel Institute. Tract. 8vo. vol. 174. Newcastle-upon-Tyne, 1869
- The chemistry of the blast-furnace. Tract. 8vo. vol. 174. Lond. 1869 (Reprinted from the "Journal of the Chemical Society.")
- R. B. On patent slip docks. Tract. 8vo. vol. 154. Plate. Glasgow, 1859 (Excerpt "Min. Proc. Inst, Engineers in Scotland.")
- BELLIN, S. Le petit atlas maritime, recueil de cartes et plans des quatre parties du monde. Vol. I.—Amérique septentrionale et Isles Antilles. Vol. II.—Amérique méridionale; Mexique, Terre-Ferme, Brésil, Pérou, Chily. Vol. III.-Asie et Afrique. Vols. IV. et V.—Europe et les États qu'elle contient. 4to. No place, 1764
- BELLOT, -. Vide BOUNICEAU.
- BELOE, C. H. Handbook of the Liverpool waterworks. Tract. 8vo. vol. 152. Plate. Lond, 1869 (Reprinted from "The Architect.")
- BELPAIRE, A. Traité des dépenses d'exploitation aux chemins de fer. Ouvrage rédigé d'après les ordres du département des travaux publics de Belgique, sur des données officielles fournies par l'administration des chemins de fer de l'etat. 8vo. Anvers, 1847
- BENEFIT BUILDING SOCIETIES. Vide Anonymous.
- BENTON, Brevet-Col. J. G. A course of instruction in ordnance and gunnery prepared for the use of the cadets of the United States' military academy. 3rd edition. New York, 1867 8vo. Cuts.

. c 2

- BÉRARD, A. Procédé Bérard pour la transformation directe de la fonte en acier. Notice explicative. Tract. 8vo. vol. 169. Plates. Bruxelles, 1870
- BERGERON, C. Les chemins de fer Suisses et le railway-clearing-house de Londres. Tract. 8vo. vol. 179.
- BERGSMA, C. A. Handleiding tot de vervaardiging der Dornsche leemdaken.
 Tract. 8vo. vol. 198.
 Utrecht, 1840
- BERKLEY, G. Preliminary experiments on the mechanical and other properties of steel, made or collected by a committee of civil engineers. Tract. Folio. vol. 11.

 Plate. Lond, 1868
- BERLIN, Sewerage and water-supply of. Vide WIEBE.
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 Lond. 1845
- BERNOULLI, D. Hydrodynamica, sive de viribus et motibus fluidorum commentarii. Opus academicum ab autore, dum Petropoli ageret, congestum. 4to. Plates. Basileæ, 1738
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 Lione, 1582
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- BESSEMER, H. Letters-patent for his "improvements in the manufacture of iron and steel." Tract. 4to. vol. 61. Plate. Lond. 1857
- BESSON, D. Teatro de los instrumentos y figuras matematicas y mecanicas.

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 Leon. 1602
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 Bath, 1866
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- BEVERLEY, W. On the magic square of the knight's march. Tract. 8vo. Lond. 1848

 (From the "Philosophical Magazine and Journal of Science.")
- BEZOUT, —. Cours de mathématiques à l'usage du corps de l'artillerie. 4 vols.

 8vo. Plates.

 (Vols. 1 and 2, 1st ed.; vols. 3 and 4, new ed.)
- BIDDER, G. P. Address to the mechanical science section of the British Association. Tract. 8vo. vol. 168.

 Norwich, 1868
- Letter on the main-drainage of the metropolis, to the Metropolitan Board of Works. Tract. Folio. vol. 12. Westminster, 1858
- BIGLAND, W. The mechanic's guide: or, a treatise on the laws of mechanics, as they relate to wheel machines: with plain and easy rules to calculate and ascertain their effects. Tract. 8vo. vol. 181.

 (Imperfect.)
- BIGNAMI, E. I canali nella città di Milano. Considerazioni e proposte. 2nd edition. Tract. 8vo. vol. 169. Map. Milano, 1868
- BIGSBY, J. J., M.D. Thesaurus Siluricus. The flora and fauna of the Silurian period, With addenda (from recent acquisitions), 4to, Plate. Lond. 1868

- BIOGRAPHICAL DICTIONARY of scientific men. Vide Poggendorff.
- BIOT, J. B. Précis élémentaire de physique expérimentale. 2 vols. 8vo. Plates.

 Paris, 1817
- ---- Tables barométriques portatives, donnant les differences de niveau par une simple soustraction. Tract. 8vo. vol. 191. Paris, 1811
- BIRCH, R. W. P. The disposal of town sewage. Tract. 8vo. vol. 194, Lond. 1870
- BIROT, F. Guide pratique du conducteur des ponts et chaussées et de l'agent voyer principes de l'art de l'ingénieur. 3° édition. 12mo. 12mo. atlas of plates. Paris, no date

BIRTHS, DEATHS, AND MARRIAGES. Vide REPORTS.

BISCUIT, sea, manufacture of. Vide ROLLET.

BITUMEN. Vide MALO.

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 Lond. 1842
- W. G. A supplement to the Imperial gazetteer. 4to. Cuts.

Glasgow, 1868

- Villa and cottage architecture: select examples of country and suburban residences recently erected; with a full descriptive notice of each building. Folio. Plates, Lond. 1868
- BLACKWELL, J. E. On the hydrology of the basin of the river St. Lawrence.

 Tract. 4to. vol. 62. Plates.

 No place, 1866
- Tract. Folio. vol. 11. Plates.

 CLithographed.)
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BOMBAY BUILDER, The: an illustrated journal of engineering, architecture, science, and art. Vols. 1-3. 4to. Plates and maps. Bombay, 1865-68
HEALTH. Vide AITKEN and HEWLETT.
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— Vide also Smiles.

- BOOTH, Rev. J. A new method of converting rectilinear into rotatory motion, applied to the steam-engine. Tract. 8vo. vol. 189. Plate. Liverpool, 1845
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 Tract. 8vo. vol. 189. Cuts.

 No place or date
- On the application of a new analytic method to the theory of curves and curved surfaces. Tract. 8vo. vol. 189.

 Lond. 1843
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 Tract. 8vo. vol. 189.

 (Excerpt "Philosophical Magazine and Journal of Science.")
- BOREL, —. Consérence sur l'achèvement du canal de Suez. Tract. 8vo. Paris, 1868
- BORGNIS, J. A. Traité complet de mécanique appliquée aux arts. 8 vols. 4to. Plates. Paris, 1818-20
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 Liverpool, 1851
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 Boston, U. S. A., 1847-50
- BOSWALL, J. D., Capt., R.N. Letter to the proprietors of steam-vessels connected with the firth of Forth, and others interested in the trade carried on by steam-navigation. With an Appendix. Tract. 4to. vol. 55. Plate. Edinburgh, 1831
- BOUCHARLAT, J. L. Élémens de mécanique. 2º édition. 8vo. Plate.

 Paris, 1827
- BOUHY, V. De la houille, et en particulier des diverses espèces de houille exploitée au couchant de Mons, en Hainaut (Belgique). 8vo. Mons, 1855
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- --- Vide Eyes.
- BOULTON, M. P. W. Remarks concerning certain pictures supposed to be photographs of early date. Tract. 8vo. vol. 155. Plates.

 (MS.)

 Lond. 1865
- BOUNICEAU, —. Étude sur la navigation des rivières à marées et la conquête des lais et relais de leur embouchure. 8vo. Plates. Paris, 1845
- Etudes et notions sur les constructions à la mer. 12mo. Cuts. 12mo. atlas of plates. Paris, 1866
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 Lond. 1867
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 (Excerpt "Transactions of the Institution of Naval Architects.")
- On the proper form of ships. Tract. 4to, vol. 55. Cuts. (Excerpt "Transactions of the Institution of Naval Architects.")
- Vide also Smith.
- BOUSQUET, G. Guide pratique d'architecture navale, à l'usage des capitaines de la marine du commerce appelés à surveiller les constructions et réparations de leurs navires. 12mo. Cuts.

 Paris, 1869

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Lond. 1843

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Lond. 1865-67

BRANDT, E. Lehrbuch der eisen-konstruktionen mit besonderer anwendung auf den hochbau. Ein leitfaden zum praktischen gebrauch und zu vorlesungen an technischen lehranstalten. 8vo. Plates and cuts.

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BRAYLEY, E. W. Abstract of a lecture on the nature and physical history of porcelain and earthenware. Tract. 8vo. vol. 193.

(From the "Pharmaceutical Journal.")

(From the "Pharmaceutical Journal.")

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— The history of the invention of the dioptric lights, and their introduction
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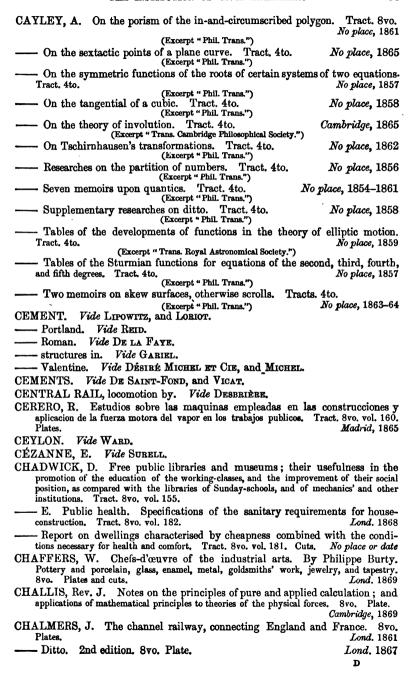
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(Excerpt "Trans. Royal Astronomical Society.")
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(Excerpt "Phil. Trans.")
———— on the theory of matrices. Tract. 4to. No place, 1858 (Excerpt "Phil. Trans.")
———— upon caustics. Tract. 4to. Cuts. No place, 1857 (Excerpt "Phil. Trans.")
—— A supplementary memoir on caustics. Tract. 4to. No place, 1867 (Excerpt "Phil. Trans.")
— Analytical researches connected with Steiner's extension of Malfatti's problem. Tract. 4to. **Computation** Trace 19. **Computation** Lond. 1852**
(Excerpt "Phil. Trans.") —— List of his mathematical works, 1841-62. Tract. 8vo. Lond. no date
——— Mamoir on the regultant of a system of two equations. Tract 4to
— Memoir on the resultant of a system of two equations. Tract. 4to.
—— Memoir on the resultant of a system of two equations. Tract. 4to. No place, 1857 (Excerpt "Phil. Trans.")
(Excerpt "Phil. Trans.") —— On a case of the involution of cubic curves. Tract. 4to. Cambridge, 1865
(Excerpt "Phil. Trans.") — On a case of the involution of cubic curves. Tract. 4to. (Excerpt "Trans. Cambridge Philosophical Society.") — On a new auxiliary equation in the theory of equations of the fifth order.
— On a case of the involution of cubic curves. Tract. 4to. (Excerpt "Trans. Cambridge Philosophical Society.") — On a new auxiliary equation in the theory of equations of the fifth order. Tract. 4to. No place, 1857 Cambridge, 1865 Cambridge, 1865 Cambridge, 1865 Cambridge, 1865 Cambridge, 1865
(Excerpt "Phil. Trans.") — On a case of the involution of cubic curves. Tract. 4to. Cambridge, 1865 (Excerpt "Trans. Cambridge Philosophical Society.") — On a new auxiliary equation in the theory of equations of the fifth order. Tract. 4to. No place, 1861 — On an extension of Arbogast's method of derivations. Tract. 4to.
— On a case of the involution of cubic curves. Tract. 4to. (Excerpt "Trans. Cambridge Philosophical Society.") — On a new auxiliary equation in the theory of equations of the fifth order. Tract. 4to. No place, 1857 Cambridge, 1865 Cambridge, 1865 Cambridge, 1865 Cambridge, 1865 Cambridge, 1865
(Excerpt "Phil. Trans.") — On a case of the involution of cubic curves. Tract. 4to. Cambridge, 1865 (Excerpt "Trans. Cambridge Philosophical Society.") — On a new auxiliary equation in the theory of equations of the fifth order. Tract. 4to. No place, 1861 — On an extension of Arbogast's method of derivations. Tract. 4to. No place, 1861
(Excerpt "Phil. Trans.") — On a case of the involution of cubic curves. Tract. 4to. (Excerpt "Trans. Cambridge Philosophical Society.") — On a new auxiliary equation in the theory of equations of the fifth order. Tract. 4to. — On an extension of Arbogast's method of derivations. Tract. 4to. (Excerpt "Phil. Trans.") — On cubic cones and curves. Tract. 4to. Cambridge, 1865
— On a case of the involution of cubic curves. Tract. 4to. (Excerpt "Trans. Cambridge Philosophical Society.") — On a new auxiliary equation in the theory of equations of the fifth order. Tract. 4to. On an extension of Arbogast's method of derivations. Tract. 4to. (Excerpt "Phil. Trans.") — On cubic cones and curves. Tract. 4to. (Excerpt "Trans. Cambridge Philosophical Society.") — On the analytical theory of the conic. Tract. 4to. No place, 1865
(Excerpt "Phil. Trans.") — On a case of the involution of cubic curves. Tract. 4to. Cambridge, 1865 (Excerpt "Trans. Cambridge Philosophical Society.") — On a new auxiliary equation in the theory of equations of the fifth order. Tract. 4to. No place, 1861 — On an extension of Arbogast's method of derivations. Tract. 4to. (Excerpt "Phil. Trans.") — On cubic cones and curves. Tract. 4to. Cambridge, 1865 (Excerpt "Trans. Cambridge Philosophical Society.") — On the analytical theory of the conic. Tract. 4to. No place, 1862 (Excerpt "Phil. Trans.") — On the classification of cubic curves. Tract. 4to. Plates. Cambridge, 1865 (Excerpt "Trans. of the Cambridge Philosophical Society.") — On the conic of five-pointic contact at any point of a plane curve. Tract.
(Excerpt "Phil. Trans.") — On a case of the involution of cubic curves. Tract. 4to. (Excerpt "Trans. Cambridge Philosophical Society.") — On a new auxiliary equation in the theory of equations of the fifth order. Tract. 4to. — On an extension of Arbogast's method of derivations. Tract. 4to. — (Excerpt "Phil. Trans.") — On cubic cones and curves. Tract. 4to. — (Excerpt "Trans. Cambridge Philosophical Society.") — On the analytical theory of the conic. Tract. 4to. — On the classification of cubic curves. Tract. 4to. Plates. — (Excerpt "Trans. of the Cambridge Philosophical Society.") — On the conic of five-pointic contact at any point of a plane curve. Tract.
(Excerpt "Phil. Trans.") — On a case of the involution of cubic curves. Tract. 4to. (Excerpt "Trans. Cambridge Philosophical Society.") — On a new auxiliary equation in the theory of equations of the fifth order. Tract. 4to. — On an extension of Arbogast's method of derivations. Tract. 4to. — (Excerpt "Phil. Trans.") — On cubic cones and curves. Tract. 4to. — (Excerpt "Trans. Cambridge Philosophical Society.") — On the analytical theory of the conic. Tract. 4to. — (Excerpt "Phil. Trans.") — On the classification of cubic curves. Tract. 4to. Plates. — (Excerpt "Trans. of the Cambridge Philosophical Society.") — On the conic of five-pointic contact at any point of a plane curve. Tract. 4to. — (Excerpt "Phil. Trans.") — On the double tangents of a curve of the fourth order. Tract. 4to.
(Excerpt "Phil. Trans.") On a case of the involution of cubic curves. Tract. 4to. Cambridge, 1865 (Excerpt "Trans. Cambridge Philosophical Society.") On a new auxiliary equation in the theory of equations of the fifth order. Tract. 4to. No place, 1861 (Excerpt "Phil. Trans.") On cubic cones and curves. Tract. 4to. (Excerpt "Phil. Trans.") On the analytical theory of the conic. Tract. 4to. (Excerpt "Phil. Trans.") On the classification of cubic curves. Tract. 4to. Plates. (Excerpt "Phil. Trans.") On the conic of five-pointic contact at any point of a plane curve. Tract. 4to. No place, 1861 (Excerpt "Phil. Trans.") On the double tangents of a curve of the fourth order. Tract. 4to. No place, 1861 (Excerpt "Phil. Trans.")
(Excerpt "Phil. Trans.") — On a case of the involution of cubic curves. Tract. 4to. Cambridge, 1865 (Excerpt "Trans. Cambridge Philosophical Society.") — On a new auxiliary equation in the theory of equations of the fifth order. Tract. 4to. — On an extension of Arbogast's method of derivations. Tract. 4to. — (Excerpt "Phil. Trans.") — On cubic cones and curves. Tract. 4to. — (Excerpt "Trans. Cambridge Philosophical Society.") — On the analytical theory of the conic. Tract. 4to. — On the classification of cubic curves. Tract. 4to. Plates. — (Excerpt "Trans. of the Cambridge Philosophical Society.") — On the conic of five-pointic contact at any point of a plane curve. Tract. 4to. — (Excerpt "Phil. Trans.") — On the double tangents of a curve of the fourth order. Tract. 4to. — No place, 1861
(Excerpt "Phil. Trans.") — On a case of the involution of cubic curves. Tract. 4to. (Excerpt "Trans. Cambridge Philosophical Society.") — On a new auxiliary equation in the theory of equations of the fifth order. Tract. 4to. — On an extension of Arbogast's method of derivations. Tract. 4to. — (Excerpt "Phil. Trans.") — On cubic cones and curves. Tract. 4to. — (Excerpt "Trans. Cambridge Philosophical Society.") — On the analytical theory of the conic. Tract. 4to. — On the classification of cubic curves. Tract. 4to. Plates. — (Excerpt "Trans. of the Cambridge Philosophical Society.") — On the conic of five-pointic contact at any point of a plane curve. Tract. 4to. — (Excerpt "Phil. Trans.") — On the double tangents of a curve of the fourth order. Tract. 4to. — (Excerpt "Phil. Trans.") — On the equation for the product of the differences of all but one of the roots
(Excerpt "Phil. Trans.") On a case of the involution of cubic curves. Tract. 4to. (Excerpt "Trans. Cambridge Philosophical Society.") On a new auxiliary equation in the theory of equations of the fifth order. No place, 1861 Tract. 4to. No place, 1861 (Excerpt "Phil. Trans.") On cubic cones and curves. Tract. 4to. Cambridge, 1865 (Excerpt "Trans. Cambridge Philosophical Society.") On the analytical theory of the conic. Tract. 4to. No place, 1862 (Excerpt "Phil. Trans.") On the classification of cubic curves. Tract. 4to. Plates. Cambridge, 1865 (Excerpt "Trans. of the Cambridge Philosophical Society.") On the conic of five-pointic contact at any point of a plane curve. Tract. 4to. (Excerpt "Phil. Trans.") On the double tangents of a curve of the fourth order. Tract. 4to. No place, 1861 (Excerpt "Phil. Trans.") On the equation for the product of the differences of all but one of the roots of a given equation. Tract. 4to. (Excerpt "Phil. Trans.") (Excerpt "Phil. Trans.")
(Excerpt "Phil. Trans.") On a case of the involution of cubic curves. Tract. 4to. (Excerpt "Trans. Cambridge Philosophical Society.") On a new auxiliary equation in the theory of equations of the fifth order. No place, 1861 On an extension of Arbogast's method of derivations. Tract. 4to. No place, 1861 (Excerpt "Phil. Trans.") On cubic cones and curves. Tract. 4to. (Excerpt "Trans. Cambridge Philosophical Society.") On the analytical theory of the conic. Tract. 4to. No place, 1862 (Excerpt "Phil. Trans.") On the classification of cubic curves. Tract. 4to. Plates. (Excerpt "Trans. of the Cambridge Philosophical Society.") On the conic of five-pointic contact at any point of a plane curve. Tract. 4to. (Excerpt "Phil. Trans.") On the double tangents of a curve of the fourth order. Tract. 4to. (Excerpt "Phil. Trans.") On the double tangents of a plane curve. Tract. 4to. (Excerpt "Phil. Trans.") On the equation for the product of the differences of all but one of the roots of a given equation. Tract. 4to. No place, 1861



- CHAMBERS, C. The normal winds of Bombay. Tract. Folio. vol. 12. Plates and cuts. Bombay, 1869
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 No place or date
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 Canaux. Chemins de fer. 8vo. Map. Paris et Bruxelles, 1838
- Exposition universelle de 1867 à Paris. Rapports du jury international.

 13 vols. 8vo. Paris, 1868
- --- Vide also MACFIE.
- CHEVERAU, l'Abbé. Discours prononcé à la réunion générale de la société Française pour la conservation des monuments. Tract. 4to. vol. 57. Caen, 1837
- CHIESA, A., and GAMBARDINI, B. Delle cagioni e dé rimedi delle inondazioni del Tevere. Della somma difficolta d'introdurre una felice, e stabile navigazione da Ponte Nuovo sotto Perugia fino alla foce della Nera nel Tevere, e del modo di renderlo navigabile dentro Roma, Folio. Plates. Roma, 1746
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 No place, 1857
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Rome, 1869

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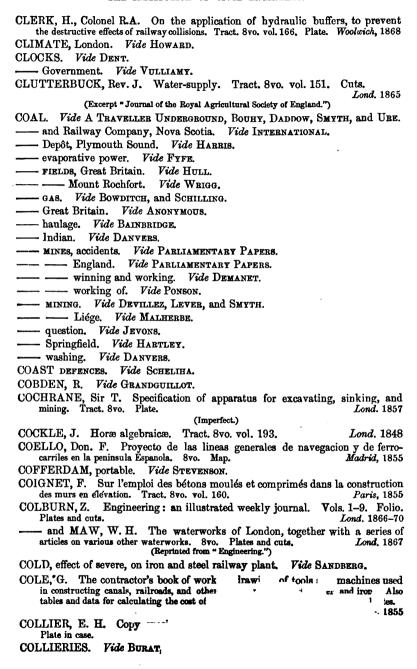
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 No place, 1867
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(Extrait des "Annales des Ponts et Chaussées.")

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 Lond. 1865

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 Lond, 1855
- FAMINE. Vide WATTS.
- COUAILHAC, V. Fers et aciers. Examen de la situation faite à la métallurgie par les différents procédés de fabrication inventés dans ces dernières années; suivi du manuel pratique du puddleur pour la fabrication des fers fins. Tract. 8vo. vol. 174.

 Liége, 1860
- COUCHE, C. Voie matériel roulant et exploitation technique des chemins de fer. Ouvrage suivi d'un Appendice sur les travaux d'art. 2 vols. 8vo. Folio plates.

 Paris, 1867-70

(Imperfect.)

- COULTHARD, H. C. Blast-engines: containing plates to scale of large working drawings, with letterpress description. Folio. Plates.

 Lond. 1867
- COURT-MARTIAL, Mhow. Vide SMALES.
- COURTOIS, C. Traité des moteurs hydrauliques. Guide théorique et pratique, destiné à faire connaître les moyens d'utiliser tous les moteurs connus, d'apprécier leur travail possible en toute circonstance, et de les employer de la manière la plus avantageuse pour économiser le capital, le temps et la force. Suivi de l'application des moteurs aux machines. 8vo. Plates. Paris, no date
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 12mo.

 Lond. 1856
- R. and NICOL, J. Select writings, political, scientific, topographical, and miscellaneous, of the late Charles Maclaren, with a memoir and photographs. 2 vols. 8vo. Edinburgh, 1869
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 Lond. 1869

(Reprinted from the "Architect.")

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 Tract. 8vo. vol. 154. Plates. Oporto, 1866
- CREED, H. H., and WILLIAMS, W. Handicraftsmen and capitalists: their organisation at home and abroad. Republished from "The Times," with a preface by Mr. Herries Creed, a sketch of English ironworks, and an Appendix. Tract. 8vo. vol. 167. Map.
 Birmingham, 1867
- CRELLE, A. L. Journal für die reine und angewandte mathematik. In zwanglosen heften. Vols. 61-69. 4to.

 Berlin, 1862-69
- CRESTADORO, A. Catalogue of the books in the Manchester free library. Reference department. 8vo. Lond. 1864
- H. Fifteenth annual report to the council of the city of Manchester, on the working of the public free libraries, 1866-67. Tract. 8vo. vol. 167. Manchester, 1867
- CRESY, E. An analytical index to an historical essay on architecture, by the late Thomas Hope. 8vo. Cuts.

 Lond. 1836

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- CROOKES, W., and RÜHRIG, E. A practical treatise of metallurgy, adapted from the last German edition of "Professor Kerl's metallurgy." 3 vols. 8vo. Cuts. Lond. 1868 -70

CRYSTALLOGRAPHY. Vide DE VILLIERS, and MILLER.

CRYSTALS. Vide STOKES.

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Lond. 1866

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 Lond. 1869
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- J. Report to the Secretary of State for India in Council on railways in India, for the years 1867-70. Folio. Plates. Lond. 1868-70
- DAPPLES, E. Étude sur l'application des forces hydrauliques à l'exploitation des chemins de fer de montagne, et en particulier sur les chemins de fer pneumatiques. Tract. 8vo. vol. 157.

 Lausanne, 1866
- Le matériel roulant des chemins de fer au point de vue du confort et de la sécurité des voyageurs. Moyens d'intercommunication proposés pour permettre aux voyageurs de tous les compartiments et aux conducteurs des trains de communiquer entr'eux pendant la marche. Tract. 8vo. vol. 157. Lausanne, 1866
- DARCY, DAVENNE, et DE ST. LÉGER. Bains et lavoirs publics. Tract. 4to. vol. 59. Plates. Paris, 1850
- et BAZIN, H. Recherches hydrauliques. Première partie. Recherches expérimentales sur l'écoulement de l'eau dans les canaux découverts. Deuxième partie. Recherches expérimentales relatives aux remous et à la propagation des ondes. 4to. 4to atlas of plates.
 Paris, 1865
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- On patents for inventions. 8vo. Glasgow, 1870
- On the present state of some branches of iron metallurgy: being a paper read to the Philosophical Society of Glasgow, April 1868. Tract. 8vo. vol. 174. Plate and cuts. Glasgow, 1868
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 Cambridge*, 1820
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(Excerpt "Philosophical Magazine.")

On the mode of using the signs, and in plane geometry. Tract. 8vo. vol. 188.

No place, 1852

Madrid, 1866

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 Lond. 1842
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(Excerpt "Journal of the Society of Arts,")

- —— Sewerage of London: a communication addressed to the commissioners of sewers, conveying a proposal for the improved drainage of the metropolis, and an improved supply of water to its inhabitants. Tract. 8vo. vol. 152. Map. Lond. 1849
- The marshes of south Italy: a few words bearing upon land speculation and cotton-growing in Italy,—malaria and brigandage. Tract. 8vo. vol. 173.

Lond, 1865

- ---- The water question. A letter addressed (by permission) to the Right Hon. the Earl of Derby, K.G., explaining a proposal for the supply of the metropolis from the higher sources of the Thames in connection with the storage of surplus waters. Tract. 8vo. vol. 151. Map.

 Lond. 1866
- DENUDATION, subaërial. Vide WHITAKER.
- DEROSNE et CAIL. Notice sur leurs machines et appareils figurant a l'exposition universelle de 1855. Tract. 4to. vol. 52. Paris, 1855
- DESBRIÈRE, —. Études sur la locomotion au moyen du rail central, contenant la relation des expériences enterprises par MM. Brassey, Fell, et Cie, pour la traversée du Mont-Cenis. Tract. 8vo. vol. 157. Plates. Paris, 1865 (Extrait des "Mémotres de la Société des Ingénieurs Civils.")

DESGODETS. Vide LEPAGE.

DESIGN, industrial. Vide Johnson.

DÉSIRÉ MICHEL et Cie. Notice sur le ciment de la Valentine, ses advantages, ses emplois et l'économie qui en résulte. Tract. 8vo. vol. 182. Marseille, 1860

- DESNOS, —. Vide DEHARME.
- DESPLACES, E. Le canal de Suez: épisode de l'histoire du XIX° siècle. 12mo.

 Maps.

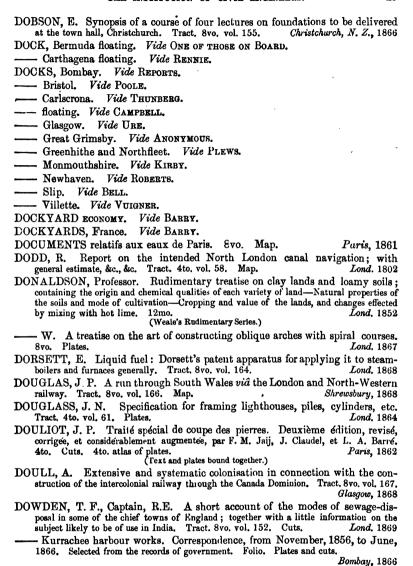
 Paris, 1858
- DESSOYE, J. B. J. Guide pratique de l'emploi de l'acier: ses propriétés. Avec une introduction et des notes par E. Grateau. 12mo. Paris, no date
- DEVELOPMENTS. Vide Winslow.
- DEVEY, J. The Life of Joseph Locke. 8vo. Portrait. Lond. 1862
- DEVILLEZ, A. De l'exploitation de la houille a la profondeur d'au moins mille mètres. 2º edition. 8vo. Liège, 1859
- Théorie générale des machines à vapeur, mise à la portée des personnes qui n'ont point étudié les mathématiques supérieures. 8vo. Plates. Liège, 1861
- DIAMOND-FIELDS, South Africa. Vide Dickson.
- DICKSON, W. & Co. South African diamond-fields. A guide to travellers and emigrants. Tract. 8vo. vol. 195. Map.

 Cape Town, 1870
- DICTIONARY, architectural. Vide PERNOT.
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- ---- French-English. Vide HAMILTON.
- marine technical. Vide BURNEY.
- —— of engineering terms, in German-English and English-German. Tract. 8vo. vol. 183.
 - (Supplement to "The Engineer" of Jan. 29, 1869.)
- of French architecture. Vide VIOLLET-LE-DUC.
- of science and art. Vide Brande.
- Portuguese and English. Vide TRANSTAGANO.
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- DIEDO, A. Vide ZANOTTO.
- DIETERLIE, J. Vide WYATT.
- DIEUDONNÉ, C. Vide Vuillemin.
- DIKES, construction. Vide CALAND.
- DINI, F. Sulla vinificazione. Tract. 8vo. vol. 160.

Milano, 1865

- DIPLEIDOSCOPE. Vide BLOXAM.
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- Worcesteriana: a collection of literary authorities, affording historical, biographical, and other notices relating to Edward Somerset, sixth Earl and second Marquis of Worcester, inventor of the steam-engine, and his immediate family connexions. With critical notes. 8vo.
 Lond. 1866
- DISC-MACHINES. Vide RENNIE.
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- DISEASES prevention. Vide GENERAL BOARD OF HEALTH.
- DOBSON, E. Foundations and concrete works: containing a synopsis of the principal cases of foundation-works, with the usual modes of treatment; and practical remarks on footings, planking, sand, concrete, beton, pile-driving, caissons, and cofferdams. New edition, revised by George Dodd. 12mo. Cuts.

 (Weale's Rudimentary Series.)



--- Vide also Public Works, India.

DOYÈRE, L. Conservation des grains par l'ensilage. Recherches et applications expérimentales faites depuis 1850 pour démontrer la conservation des grains par l'ensilage souterrain hermetique; avec les documents officiels. 8vo. Paris, 1862

Mémoire sur l'ensilage rationnel. Système nouveau pour conserver les grains d'après les données positives de la science et de la pratique, sans déchet, sans perte de qualité, sans travail et à moindres frais que dans tout autre système.
8vo.

Paris, 1856

- DOYNE, W. T. Queensland railways. Letter from W. T. Doyne, accompanying his evidence, given before the Railway Committee of the Legislative Council of Queensland. Tract. 8vo. vol. 158. Ipswich, 1866 - Second report upon the river Waimakariri and the lower plains of Canterbury, New Zealand. Tract. 4to. Plates. Christchurch, N.Z., 1865 DRACH, S. M. Deductions from Mr. Glaisher's "Meteorological corrections." Tract. 8vo. vol. 193. Lond. 1851 (Excerpt " Philosophical Magazine.") DRAINAGE. Vide Hombourg, Latham, and Stephens. - Ballinamore and Ballyconnell district. Vide Macmanon. —— Bombay. Vide AITKEN, and TULLOCH. - Calcutta. Vide CLARK. — Canterbury. Vide Pilbrow. --- Chorley. Vide RAWLINSON. Vide BLACKWELL. — Devizes. — Leicester. Vide WICKSTEED. - Lewes Laughton level. Vide SMEATON. - London. Vide DENTON. - Lough-Lannah district. Vide BARRY. ---- Metropolitan. Vide METROPOLITAN DRAINAGE. Vide DEMPSEY. - of buildings. - of Land Act. Vide THRING. - of lands. Vide DEMPSEY, GRANTHAM, and WILLIAMS. - of towns. Vide DEMPSEY, and GENERAL BOARD OF HEALTH. - south and middle levels of the Fens. Vide SMITH. DRAWING. Vide APPLETON. - engineering, etc. Vide ARMENGAUD. — of machinery. Vide LE BLANC. DREDGING, river Clyde. Vide REPORTS. DRESSER, C. L. Leeds waterworks, 1866. An examination of the report of Mr. Filliter. Tract. 8vo. vol. 151. Leeds, 1866 DREW, J. On deductions from meteorological observations. Tract. 8vo. vol. 193. Cut. No place, 1850 (From the "Civil Engineer and Architect's Journal.") - On the instruments employed in meteorological observations. Tract. 8vo. vol. 193. Southampton, 1850 (From the "Civil Engineer and Architect's Journal.") DRY-ROT. Vide GEORGE. DRYSDALE, Dr. C. On cholera; its nature and treatment. Being the debate in the Harveian Medical Society of London. Tract. 8vo. vol. 194. Lond, 1866 DU CAMP, M. Les beaux-arts à l'exposition universelle de 1855. Peinture-Sculpture. 8vo. Paris, 1855 DU MARÈS, J. B. Avant-projet d'un tunnel reliant les chemins de fer de la France et de l'Angleterre, Tract. 4to, vol. 62. Plates, Mons. 1867 DU MONCEAU, D. De l'exploitation des bois, ou moyens de tirer un parti
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avantageux des taillis, demi-futaies et hautes-futaies, et d'en faire une juste estima-

DU MONCEL, Cte. T. Traité theorique et pratique de télégraphie électrique, à l'usage des employés télégraphistes, des ingénieurs, des constructeurs et des inventeurs. 8vo. Plates and cuts.

Paris, 1864

DUBLIN EXHIBITION. Vide ROYAL ITALIAN COMMISSION.

DUCAT, Lieutenant W. M. Report on project for reclaiming land between Bombay and Trombay; with a memorandum by Lieut.-Colonel A. De Lisle. 8vo. Plates, Bombay, 1863

DUFRÉNOY et ELIE DE BEAUMONT. Carte géologique de la France. Folio. Paris, 1840

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extension of water-supply and new works. Tract. 8vo. vol. 151. Plans. Liverpool, 1866

Report of the waterworks engineer, October 1866. Tract. 8vo. vol. 151.
Plates. Liverpool, 1866

DUNES on the coast of West Prussia. Vide KRAUSE.

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DWELLING-HOUSES. Vide Brooks.

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DYNAMICS. Vide ROUTH, and TAIT.

E.

- EADS, J. B. Report of the engineer-in-chief of the Illinois and St. Louis Bridge Company. Tract. 8vo. vol. 197. Plates and cuts. St. Louis, 1868
- —— System of naval defences. Report to the Honourable Gideon Welles, secretary to the navy, February 22, 1868. 4to. Plates. New York, 1868
- EARDLEY-WILMOT, Col. F. Experiments connected with the comparative strength of iron used in the manufacture of mortars, also as relates to their enduring properties when fired with service charges, and the mechanical tests to which the iron can be subjected in the machine; carried on under the direction of the superintendent Royal gun factories, by order of Lord Panmure, K.T., G.C.B., Secretary of State for War. Tract. 8vo. vol. 128.

 Woolwich, 1857
- —— BOXER, Capt. E. M., ANDERSON, J., and ABEL, F.A. Report of the commission appointed by the Right Hon. Lord Panmure to make inquiries into the state of the manufacture of iron and brass ordnance in various continental states. Appendix. Tract. Folio. vol. 12.

 Lond. 1856
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ECKHOLD'S Omnimeter. Description. Tract. 8vo. vol. 181. Cuts.

No place or date.

(Extr. Portef. des Mach. 1868.)

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 Paris, 1850
- ECONOMIC PERMANENT WAY COMPANY. New railway systems of 1869. Griffin's improved timber sleeper system. Tract. 8vo. vol. 179. Plate.

Westminster, 1869

EDGE, F. M. The destruction of the American carrying trade. A letter to Earl Russell, K.G. Tract. 8vo. vol. 158.

Lond. 1868

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 Lond. 1810

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EMION, V. Manuel pratique, ou traité de l'exploitation des chemins de fer,
précédé d'une préface, par J. Favre. 12mo. Paris, 1864
EMPLOYMENT. Vide Anonymous.
EMPLOYMENT. Vide ANONYMOUS. —— of children. Vide Parliamentary Papers.
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 of children. Vide Parliamentary Papers. EMY, A. R. Cours élémentaire de fortification fait a l'école spéciale militaire. 8vo. 4to. atlas of plates. Paris, 1843 ENCYCLOPÆDIA of antiquities. Vide Duvivier. METROPOLITANA; or, universal dictionary of knowledge, on an original plan: comprising the twofold advantages of a philosophical and an alphabetical arrangement, with appropriate engravings. Edited by the kev. E. Smedley. Second division. Mixed sciences. Vol 2. 4to. Lond. 1830 ENDRÈS, E. Manuel du conducteur des ponts et chaussées, rédigé d'après le nouveau programme officiel. 2° édition. 2 vols. 8vo. Cuts. Paris, 1857 ENGINE, marine. Vide Saxey. Reporter and Advertiser. Vide Lean.
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EXPOSITION. Universelle de Paris de 1867. Notice sur l'état des travaux publics en Espagne et sur la législation spéciale qui les régit. 8vo. (Traduit de l'Espagnol) - de 1862, à Londres. Section Française. Catalogue officiel. 8vo. Paris, 1862 - de Londres en 1862. Belgique. Catalogue des produits industriels et des œuvres d'art. 8vo. Plates. Bruxelles, 1862 - 1855. Catalogue des objets exposés dans le section Britannique de l'exposition, en Anglais et Français. 8vo. Cuts. Lond. 1855 EYES, E. A littoral survey of the port of Liverpool. With additions and emendations from the original note books, by Joseph Boult. Tract. 8vo. vol. 198. Liverpool, 1870 F. F. C. An inquiry into the national debt and sinking fund. Tract. 8vo. vol. Lond. 1856 FACTORIES. Vide PARLIAMENTARY PAPERS. FACTS AND FIGURES. Vide Anonymous. FAIRBAIRN, H. A plan for converting turnpike roads into railroads; and for suspending the whole of the joint-stock railway schemes: in a letter to the Right Hon. C. P. Thompson, M.P. Tract. 8vo. vol. 201. Lond. 1836 - Sir W., Bart. An experimental inquiry into the strength of wroughtiron plates and their riveted joints, as applied to shipbuilding and vessels exposed to severe strains. Tract. 4to. vol. 52. Plates and cuts. (Excerpt "Phil. Trans.") Iron, its history, properties, and processes of manufacture. 3rd edition, revised and enlarged. 8vo. Flates and cuts. Edinburgh, 1869 - On governmental boiler inspection. Tract. 8vo. vol. 195. Manchester, 1870 - Useful information for engineers. Third series. As comprised in a series of lectures on the applied sciences, and on other kindred subjects; together with treatises on the comparative merits of the Paris and London international exhibitions, on roofs, on the Atlantic cable, and on the effect of impact on girders. 8vo. Plates and cuts. Lond. 1866 - and OTHERS. Report of the committee on shipping statistics; presented to the British association, September, 1858. Tract. 8vo. vol. 177. Lond. 1858 FAIRBANKS, S. P. Nova Scotia mines and minerals. Tract. Folio. vol. 10. Halifax, 1864 FAIRLIE, R. F. Observations on the construction of railway carriages, together with a paper on railways and their management. Tract. 8vo. vol. 166. Plates and cuts. Lond. 1868 - Opinions of the press on the Fairlie engine: being a series of articles reprinted from the leading scientific and other journals. Tract. 8vo. vol. 164. Plates and cuts. Lond, 1868 - Result of experiments with the Fairlie locomotive. Tract. Folio. Plates. No place, 1870 (Lithographed.) Vide also MALLET. FALCONER, W. Vide BURNEY. FARADAY, M. On the manufacture of glass for optical purposes. Tract. 4to. vol. 56. Plate. Lond. 1830 (From the "Philosophical Transactions.")

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 Uranographie ou traité élémentaire d'astronomie, à l'usage des personnes peu
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- FRANQUOY, J. De la fabrication des combustibles agglomérés ou briquettes de charbon pour les usages industrielles. Étude sur les usines d'agglomération du bassin de Charleroi. 8vo. Plates.

 (Extrait des "Annales des Travaux Publics de Belgique.")
- Des progrès de la fabrication du fer dans le pays de Liége. 8vo.

Liége, 1861

FREEMAN, J. The dispute in the iron trade. Tract. 8vo. vol. 174. Lond. 1864 FREEMY, E. Vide Pelouze.

FRENCH GOVERNMENT. Vide BLOCK.

- FRESENIUS, Dr. C. R. A system of instruction in quantitative chemical analysis. 4th edition. 8vo. Cuts.

 Lond. 1865
- —— and WILL, H. New methods of alkalimetry, and of determining the commercial value of acids and manganese. Edited by J. Lloyd Bullock. 12mo. Cuts. Lond. 1843

FRESNEL, A. Vide DE SENARMONT.

FRICTION. Vide CLERK.

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FRIENDLY SOCIETIES. Vide Anonymous, and Ansell.

- FRISI, P. A treatise on rivers and torrents; with the method of regulating their course and channels: to which is added, an essay on navigable canals. Translated by Major-General John Garstin. 4to. Maps.
- FROW, C. Report and sketches of the outfall of the river Witham and estuary, showing proposed improvements in accordance with the annexed suggestions, published A.D. 1861: and this report prepared for the Boston harbour commissioners, May, 1864. Tract. Folio. Maps.

 Boston, 1864

FUEL, artificial. Vide FRANQUOY.

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- patent. Vide BASSETT.
- used on French railways. Vide DE FONTENAY.
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 Lond. 1869
- FURNACES and boilers. Vide BODMER.
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 No place or date

 (Excerpt "Edinburgh New Philosophical Journal" for April, 1841.)

- G. M. Difesa della città e porti di Brindisi. 4to. Napoli, 1831 GALBRAITH, Rev. J. A. A statement in explanation of evidence given before a committee of the House of Commons, relative to the construction of the Boyne viaduct. Tract. 8vo. vol. 183. Dublin, 1858 - and HAUGHTON, S. W. Short account of experiments made at Dublin, to determine the azimuthal motion of the plane of vibration of a freely-suspended pendulum. Tract. 8vo. vol. 188. Dublin, 1851 (Excerpt " Proceedings of the Royal Irish Academy.") Trigonometrical surveying, levelling, and railway engineering. 8vo. Cuts. Edinburgh and Lond. 1842 GALLOT, J. L. The universal curve-table for ranging railway curves, applicable to all units of measurement and all radii. 16mo. Cuts. Lond. 1868 GALT, A. T. Canada: 1849 to 1859. Tract. 8vo. vol. 176. Lond. 1860 - W. Railway reform: its importance and practicability considered as affecting the nation, the shareholders, and the government. 8vo. Lond. 1865 GALVANISM. Vide HARRIS. GAMBARDINI. Vide CHIESA. GARBETT, E. L. Rudimentary treatise on the principles of design in architecture, as deducible from nature, and exemplified in the works of the Greek and Gothic architects. 3rd edition 12mo. Cuts. Lond. 1867 (Weale's Rudimentary Series.) GARDNER, J. C. Perpetual motion. Tract. 8vo. vol. 161. Cut. Lond. 1867 GARIEL, -. Dessins et notices relatifs à diverses constructions en ciment de la fabrique de Vassy-lès-Avallon (Yonne). Folio. Plates. Paris, 1853 GARNIER, J. G. Lecons de calcul différentiel. 3º édition. 8vo. Paris. 1811 GARSTIN, J. Vide Frisi. GAS. Vide Accum, Anonymous, Bowditch, Newbigging, Ohren, and Schil-LING. - ENGINES. Vide TRESCA. —— flow of, in pipes. Vide Pole. ---- hydrogen, for lighting and warming. Vide VIAL. - lighting. Vide Matthews, Schilling, and Verver. - manipulator. Vide BANISTER. — Metropolis. Vide REPORTS. Paris. Vide Delessert. - supply, London. Vide Hughes. GASES, dynamical theory of. Vide MAXWELL. GASOMETRY. Vide Bunsen.
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GAUDARD, J. Étude comparative de divers systèmes de ponts en fer. 8vo.
Plates.

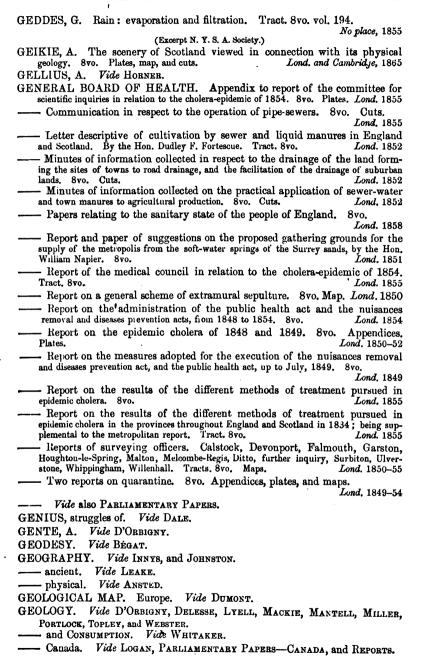
Paris, 1865

GASSIOT, J. P. Monetary panies and their remedy; with opinions of the highest authorities on the bank charter act. Tract. 8vo. vol. 178. 2nd edition, enlarged.

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GAUGE, tidal, at Sunderland harbour. Vide MEIK.

GAY DE VERNON, —. Traité élémentaire d'art militaire et de fortification, à l'usage des élèves de l'école Polytechnique, et des élèves des écoles militaires. 2 vols. 4to. Plates. Paris, (an 13) 1805



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 (Lithographed.)
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 (Excerpt "Bath and West of England Agricultural Journal," vol. xiii.)
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- Report to the select committee of the worshipful the committee upon improvements of the corporation of the city of London, in relation to the traffic of the city, and the improvements needed in the public ways. Tract. Folio. vol. 12. Maps. Lond. 1867

- HAYWOOD, W. Report to the special committee upon improvements of the Hon. the commissioners of sewers of the city of London, on the traffic and improvements in the public ways of the city of London. Tract. 8vo. Map. Lond. 1866
- HAZARD, R. G. Our resources: a series of articles on the financial and political condition of the United States. Tract. 8vo. vol. 176.

 Lond. 1864
- HEALTH COMMITTEE of London. Vide PEACOCK.
- of the borough of Liverpool. Vide Borough Engineer.
- HEAT. Vide KELLAND, LESLIE, and MELLONI.
- from natural sources. Vide BALDWIN.
- measurement of. Vide URE.
- --- mechanical theory of. Vide CLAUSIUS, and HIRN.
- HEATED CURRENTS, application of, to manufacturing purposes. Vide Whishaw.
- HEATHER, J. F. Treatise on mathematical instruments. 2nd edition. 8vo.

 Plate and cuts.

 (Weale's Rudimentary Series.)
- HEATON, J. Process for the treatment of cast iron and the manufacture of steel. Tract. 8vo. vol. 164. Plate.

 Lond. 1869
- HEBRIDES, Geology. Vide MILLER.
- HEDLEY, O. D. Who invented the locomotive engine? With a review of Smiles's "life of Stephenson." 8vo. Plates.

 Lond, 1858
- HEMANS, G. W., and HASSARD, R. On the future water-supply of London. (Tract. 8vo. vol. 151. Map.)

 Lond. 1866
- HENDERSON, A. Test trial and shipping improvement association. Tract. Folio. vol. 11.

 Lond. 1865
- HENDERSON, D. M. Report of the chief coast-lights' engineer in reference to the sea-lighting of the entrance to the Yang-tsze river. Tract. 4to. vol. 63. Plates.

 Shanghai, 1869
- HENRICI, O. Skeleton structures: especially in their application to the building of steel and iron bridges. 8vo. Plates. Lond. 1866
- HENRY, J. Reports of the operations of the National Academy of Sciences, Washington. Tract. 8vo. vol. 180. Washington, 1867-68
- HENWOOD, C. F. Textbook to the turret and tripod systems of Captain Cowper P. Coles, R.N., C.B., as designed for future turret navies: from the plans of Vice-Admiral Halsted. Tract. 4to. vol. 55. Plates and cut. No place, 1867
- ---- W. J. Address delivered at the spring meeting of the Royal Institution of Cornwall, on the 18th of May, 1869. Tract. 8vo.

 Penzance, 1869
- HEPPEL, J. M. Letter to Major-General Johnston on Indian rolling-stock.

 Tract. Folio.

 Lucknow, 1868
- HERSCHEL, Sir J. F. W., Bart. Astronomy. 12mo. Plate and cuts.

 Lond. 1833

 (Lardner's Cabinet Cyclopædia.)
- Physical astronomy. Sound, light. 4to. Plates. No place or date (Excerpt "Encyclopædia Metropolitana.")
- —— Sir J., Bart., and Others. Suggestions to astronomers for the observation of the total eclipse of the sun on the 28th of July, 1851. Appendices. Tracts. 8vo. vol. 188. Plate.

 Lond. no date
- HEWITT, A. S. Paris universal exposition, 1867. Reports of the United States commissioners. The production of iron and steel in its economic and social relations. Tract. 8vo. vol. 174. Plate. Washington, 1868
- HEWLETT, T. G. Bombay municipality. Health officer's report, 1866. Folio.

 Plates and map.

 Bombay, 1867
- HEWSON, W. Principles and practice of embanking lands from river-floods, as applied to "levees" of the Mississippi. 8vo. New York, 1860

HIGGIN, G. Spain in 1866. Tract. 8vo. vol. 165.

Edinburgh, 1866

HIGHWAYS. Vide Kynnersley.

- Law relating to. Vide PRATT.

- HILL, M.D. Opinions of M. Cremieux, M. Bonneville de Marsangy, of Lord Campbell, and of Lord Brougham, on Lord Brougham's application in the year 1848 for French letters of naturalization; laid before the Association for the Promotion of Social Science, to which is added the answer of that body. Tract. 8vo. vol. 178. Bristol, 1869
- J., Major-Gen., R.A. The railway problem, 1870. Tract. 8vo. vol. 196. Lond. 1870
- —— Sir R. Royal commission on railways. Report. Tract. Folio. vol. 12. Lond, 1867
- HILLER, H. The national boiler insurance company, limited. Chief engineer's report, 1869. Tract. 8vo.

 Manchester, 1870
- HIND, J. R. On the expected return of the great comet of 1264 and 1556; with a history of former appearances compiled from various authors, and ephemerides for facilitating its rediscovery. Tract. 8vo. vol. 190.

 Lond. 1848
- —— Path of the total phase of the solar eclipse, December 21, 22, 1870. Tract. 8vo. Map.
- HIRN, G. A. Exposition analytique et expérimentale de la théorie mécanique de la chaleur, contenant la traduction du livre de G. Zeuner: grundzüge der mechanischen wärmetheorie. 8vo. Plates. Colmar, 1862
- HIRSCH, M. Integral tables; or a collection of integral formulæ. 8vo.

Lond. 1823

HIRT, A. Versuch über den allmähligen anbau und wasserbau des alten Aegyptens, Tract. 4to. vol. 58.

Berlin, 1815

HISTORY, Edinburgh. Vide MILLER.

HOBBS, A.C. Vide MALLET.

- HOFMANN, A. W. The chemical laboratories in course of erection in the universities of Bonn and Berlin. 4to. Cuts. Lond. 1866
- HOHEN REICHSRATH DES OESTERREICHISCHEN KAISERSTAATES. Die Triester hafenfrage. Entgegnung auf die broschüre des hafenprojectes von P. Talabot. Map. Tract. 4to. vol. 60.

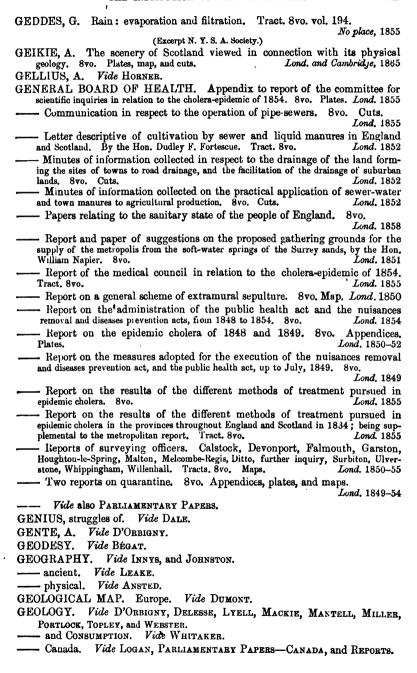
 Trieste, 1862
- HOLLAND AND THE DUTCH COLONIES. Vide MACGREGOR.
- HOLLIDAY, J. D. Dottings on Natal. Tract. 8vo. vol. 157. Maritzburg, 1865 HOLTZMAN, A. Vide Newton.
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 Oxford, 1767
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 Lond. 1869
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 Lond. 1868
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 Lond. 1868



- HUGHES, W. C. The American miller and millwright's assistant. 12mo. Plates. Philadelphia, 1856
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- HULSE, W. Model form of railway accounts: submitted to the national conference of railway shareholders, Manchester, April 15, 1868. Tract. Folio. vol. 11.
- No place, 1868 HUMBER, W. A record of the progress of modern engineering (1865); comprising civil, mechanical, marine, hydraulic, railway, bridge, and other engineering works; with essays and reviews. Folio. Photograph and plates. Lond. 1866
- Ditto (1866). Folio. Photograph and plates. Lond. 1868
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- HUMBLE, R. Replies to letters as to his claim to the invention of the cupola.
- Tract. Folio.

 W., M.D. Dictionary of geology and mineralogy, comprising such terms in conchology, entomology, palaontology, zoology, botany, chemistry, comparative anatomy, conchology, entomology, palæontology, zoology, and other branches of natural history, as are connected with the study of geology. 2nd Lond. 1843 edition, with additions. 8vo.
- HUMBOLDT, A. Von. A sketch of a physical description of the universe. Translated from the German, by E. C. Otté and others. 5 vols. 8vo. Plate.
- Lond. 1851-60 - Views of nature: or contemplations on the sublime phenomena of creation; with scientific illustrations. Translated from the German by E. C. Otté and Henry G. Behn. 8vo. Plate. Lond. 1850
- HUMPHREYS, Captain A. A., and ABBOT, Lieut. H. L., U.S.A. Report upon the physics and hydraulics of the Mississippi river; upon the protection of the alluvial region against overflow; and upon the deepening of the mouths. 8vo. Мар. Washington, 1867
- H. T. Description of patent post and railway. Tract. 8vo. vol. 196. Plates. No place, 1870
- HUNT, J. Theodosii sphæricorum libri tres. 8vo. Cuts. Oxford, 1707 (In Greek and Latin.)
- R. The rise and progress of steam-cultivation at the Watling works, Stony Stratford, Bucks. Tract. 8vo. vol. 153. Birmingham, 1863
- T. F. Exemplars of Tudor architecture, adapted to modern habitations: with illustrative details, selected from ancient edifices; and observations on the furniture of the Tudor period. 4to. Plates. Lond. 1841
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- HUTTON, C. Vide Robins.
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HYDRAULIC MACHINES. Vide EWBANK.
—— MOTORS. Vide COURTOIS.
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public works. Vide Bourne.
INDIAN GOVERNMENT, Madras military department. Extracts from proceedings relative to Colonel Campbell's inventions. Tract. Folio. vol. 10. Cuts. Madras, 1865
INDUCTION and DEDUCTION. Vide LIEBIG.
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INMAN, Rev. J. Vide DE CHAPMAN.
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INSTITUTION of Surveyors, Transactions of the, Vol. I. 8vo. Lond. 1869 INSTRUCCION Publica, anuario de la, para el año académico de 1867 á 1868. 8¥0.

- mathematical and philosophical. Vide Beroaldo, and Besson. - mathematical drawing. Vide STANLEY.

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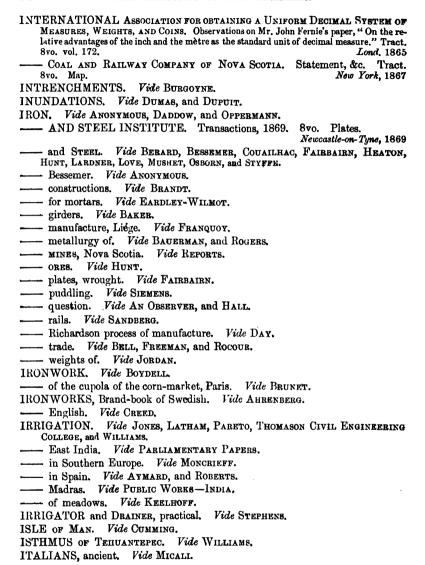
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J.

JACKSON, M. B. A scheme for the supply of water to the towns of Sheffield, Rotherham-cum-Kimberworth, and Doncaster, with provision for the future supply of Chesterfield, &c. Tract. 8vo. vol. 151. Westminster, 1866 - T. The tourist's guide to Britannia bridge, Tract. 8vo. vol. 183. Lond, 1850

Plates and cuts.

- JACOB, A. Practical designing of retaining-walls. Tract. 8vo. vol. 158. Cuts. Dublin, 1867
- - (Reprinted-with additional matter-from " The Engineer.")
- JAIL, Lahore. Vide LALL.
- JAMES, Colonel Sir H., R.E. Comparisons of the standards of length of England, France, Belgium, Prussia, Russia, India, Australia, made at the Ordnance Survey office, Southampton, by Captain A. R. Clarke. 4to. Plates and cuts. Lond. 1866
- ---- Notes on the great pyramid of Egypt, and the cubits used in its design.

 Tract. 4to. vol. 62. Plates.

 Southampton, 1869
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 Lond. 1736
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- JEANNERET, H. De la guerison prompte et facile du cholera Asiatique.

 Tract. 8vo. vol. 156.

 No place, 1865
- —— Epidemic cholera, diarrhea, and dysentery. Pointing out an effectual and expeditious method of cure; with cases submitted to the medical council of the board of health during the epidemic of 1854. Tract. 8vo. vol. 156.

 Lond. 1857
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 Lond. 1867
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 Lond. 1854
- pelling vessels. Tract. 4to. Plates. Lond. 1854

 Lieut.-Col. E. A confutative biographical notice of Julius Jeffreys. Tract.
 8vo. vol. 183. Lond. 1855
- JENKIN, F. A lecture on the education of civil and mechanical engineers in Great Britain and abroad, being a public inaugural address delivered in the university of Edinburgh. Tract. 8vo. vol. 167.

 Edinburgh, 1868
- ---- Lectures on electrical measurements. Written by Capt. R. H. Stotherd, R. E., and corrected by the lecturer. 8vo. Cuts. Chatham, 1867
- JERRARD, G. B. Mathematical researches. Tracts. 8vo. vol. 187.
 - Bristol, 1832-35

 Reflections on the resolution of algebraic equations of the fifth degree. Tract.
- JERVIS, G. P. Indicateur perfectionné des chemins de fer. Tract. 4to. vol. 58.
 Cut.

 Turin, 1867
- T. B., Major E.I.C.E. Address descriptive of the state, progress, and prospects of the various surveys and other scientific inquiries instituted by the Honourable East India company throughout Asia; with a prefatory sketch of the principles and requirements of geography. 8vo.

 Torquay, 1838
- W. P. Dublin international exhibition, 1865. Kingdom of Italy. Official catalogue, illustrated with engravings, published by order of the Royal Italian commission. 2nd edition. 8vo. Cuts.
- JEVONS, W. S. The coal question; an inquiry concerning the progress of the nation, and the probable exhaustion of our coal mines. 2nd edition. 8vo. Plate.
- JOHNSON, —. Patent long cylinder, direct action, steam lift. Tract. 4to. vol. 63.

 Plate.

 No place, 1851

8vo. vol. 155. Cuts.

JOHNSON, E. F. Letter from the chief engineer of the Northern Pacific railroad to International Convention, Portland, Maine. Tract. 8vo. vol. 186. Middletoun, Conn., 1868 - Northern Pacific railroad. Report to the board of directors, April 1869, and reports of surveys executed in 1867, by Gen. Ira Spaulding, and Gen. James Tilton. Tract. 8vo. vol. 186. Maps. Hartford, 1869 The navigation of the lakes and navigable communications therefrom to the seaboard, and to the Mississippi river, and the relation of the former to the lines of railway leading to the Pacific. Tract. 8vo. vol. 170.

Hartford, 1866 Hartford, 1866 E. J. Captain, R.N. On the application of "native alloy" (a material found with platinum), for the pivots of magnetic compasses. With results of experiments on different kinds of steel. Tract. 4to, vol. 64.

(From the "Report of the British Association for the Advancement of Science," 1840.) W. The practical draughtsman's book of industrial design; forming a complete course of mechanical, engineering, and architectural drawing. Translated from the French of M. Armengaud, aine, and MM. Armengaud, jeune, and Amouroux. 4to. Plates. Lond, 1853 JOHNSTON, A. K. Index geographicus; being a list, alphabetically arranged, of the principal places on the globe, with the countries and subdivisions of the countries in which they are situated, and their latitudes and longitudes. 8vo. Edinburgh and Lond. 1864 - The Royal atlas of modern geography; with a special index to each map. Folio. Edinburgh and Lond, 1869 J. F. W. Tables of chemical constants, exhibiting the present state of our knowledge in regard to the most important properties of the non-metallic elementary bodies, and their compounds with oxygen and hydrogen. Tract. 8vo. vol. 192. Edinburgh, 1834 - T. M. H. Administration report on the operations of the public works department of Travancore, together with a special report on the works of the A. V. M. canal. Tract. 8vo. Plate. Madras, 1869 - Report on the formation of a proposed harbour and breakwater at Pendeen. in the county of Cornwall. Tract. 8vo. vol. 173. Truro, 1854 - Report on the harbour and roadstead of St. Peter-port, in the island of Guernsey, accompanied by a design for a proposed new harbour and other improvements. Tract. 8vo. vol. 173. Guernsey, 1850 Travancore Public Works Department. Report on some of the works in the southern division. Tract. 8vo. Trevandrum, 1867 - Report on the works of the Peermade Ghaut road. Tract. 8vo. Madras, 1868 JOINER, universal. Vide Thompson. JOINT-STOCK COMPANIES. Vide Cox. JONES, Dr. H. B. The life and letters of Faraday. 2 vols. 8vo. Plates and cuts. Lond. 1870 - Rev. H. L. Vide LE KEUX. - J. E. The sewage of the city of Westminster described and delineated. Folio drawings. Lond. 1839 . (MS.) - S. T. Specification of the patent for improvements in steam-engines and in machinery for propelling vessels. Tract. 8vo. vol. 183. Plate. Lond, 1848 Captain W. Report on the canal irrigation of Rohilcund, inclusive of irrigation of terai lands; to which is added some notes on the direct management of Roodnepoor and Guadurpoor. 4to. Plates and maps. Roorkee, 1855 JOPLING, J. A key to proportions of the Parthenon. Nos. I. and II. Tract. Lond. 1855-56

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lines of beauty innumerable. Tract. 8vo. vol. 155. Plates.

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- JOULE, J. P. On the air-engine. Tract. 4to. vol. 52. Plate. No place, 1852 (Excerpt "Phil. Trans.")
- JOURDIER, A. Le matériel agricoel, ou description et examen des instruments, des machines, des appareils et des outils au moyen desquels on peut; 1º Sonder, defricher, defoncer, drainer; 2º Labourer, fouiller, remuer et aerer, alléger, plomber, nettoyer, et ensemencer la terre; 3º Façonner le sol emblavé; 4º Récolter, transporter, abriter, et emmagasiner les produits; 5º Tirer parti de chacun d'eux, soit pour les consommer soit pour les vendre, etc. 12mo. Cuts.

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 Lond. 1844-67
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- —— DE L'ÉCOLE IMPÉRIALE POLYTECHNIQUE. 24 vols. 4to. Plates and cuts.

 Paris, 1795–1865

 (The title has been changed several times. It was at first "Journal Polytechnique: ou, bulletin du travail fait a l'école centrale des travaux publics.")
- Engineering: an illustrated weekly journal, conducted by Zerah Colburn.

 Vols, 1-9. Folio. Plates and cuts.

 Lond, 1866-69
- Ingénieur. Journal scientifique des travaux Européens. 2nd series, vol. iv. Plates and cuts. Paris, 1855
- of Mathematics. Vide Liouville.
- —— OF THE NATIONAL LIFEBOAT INSTITUTION. The lifeboat, Nos. 1, 3, 7, 12, 14, 15, 17, and 18. Tracts. 8vo. vol. 177. Map.

 Lond. 1853
- JUDAH, T. D. Report upon recent surveys, progress of construction, and an approximate estimate of cost of first division of fifty miles of the Central Pacific railroad of Cal., July 1, 1863. Tract. 8vo. vol. 170.

 Sacramento, 1863
- JUDD, N. B., and CAMPBELL, G. C. James Ward v. Mississippi and Missouri railroad company. Abstract pleadings and proof, and argument, on final hearing, November 1, 1859. Tract 8vo. vol. 197 Chicago, 1859
- JUKES, J. B. Additional notes on the grouping of the rocks of north Devon and west Somerset; with a map and section. Preceded by an introductory statement.

 Tract. 8vo. vol. 175. Plates.

 Dublin, 1867
- JULLIEN, B. De quelques points des sciences dans l'antiquité [physique, métrique, musique]. 8vo. Paris, 1854
- —— C. E. A propos de verres ou les trois solutions du problème de chimie M O < M O' < M O² mises en presence. Tract. 8vo. Paris, 1867
- Introduction a l'étude de la chimie industrielle. 12mo.
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 12mo.

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 Paris, 1844
- JUNTA GENERAL DE ESTADÍSTICA. Anuario estadístico de España, 1859-65. 3 vols. 8vo. Madrid, 1860-67

K.

- KATALOG DER BIBLIOTHEK der Königlichen polytechnischen schule zu Hannover, 8vo.

 Hannover, 1868
- KEAY, P. Examples of estimating: prepared for the use of the students of the Thomason civil engineering college, Roorkee. Folio. Plates. Roorkee, 1866

- KEELHOFF, J. Traité pratique de l'irrigation des prairies. 8vo. Plates. Bruxelles, 1856
- KELLAND, P. Theory of heat. 8vo. Cambridge and Lond. 1837
- KELLOW, J. The slate trade in north Wales; being a reprint of a series of letters on the above subject, published in the "Mining Journal." Tract. 8vo. vol. 164.
- KENNEDY, J. P. Peabody institute. Address of the president to the board of trustees, on the organization and government of the institute. Tract. 8vo.

No place, 1870

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- KIDD, J., M.D. An introductory lecture to a course in comparative anatomy. illustrative of Paley's natural theology. 2nd edition. Tract. 8vo. vol. 192. Oxford, 1826

New York and Lond. 1863

- KIDSTON, C. Report by the dredging committee on hopper barges, to the trustees of the Clyde navigation. Tract. 8vo. vol. 198. Glasgow, 1862
- KIELMANN, C. E. Vide Hombourg.
- KING, E. Remarks on the signs of the times. Tract. 4to. vol. 58. Lond, 1798 - J. W. Lessons and practical notes on steam, the steam-engine, propellers, &c., &c., for young engineers, students, and others. By the late W. H. King, U.S.N.
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- Ditto, for session 1866. Map folding in folio.

Newport, 1865

KIRKWOOD, J. P. Vide CHILDE.

KNAPP, F. Vide Schilling.

- KNIGHT, C. The English cyclopædia: a new dictionary of universal knowledge, arts, and sciences. 8 vols. 4to. Cuts. Lond. 1859-61
- G. Smith, Knight, & Company (Limited). Address to the shareholders. Tract. 4to. vol. 58. Westminster, 1865
- KNOWLES, J. The elements and practice of naval architecture; or, a treatise on shipbuilding, theoretical and practical, on the best principles established in Great Britain, with copious tables of dimensions, scantlings, &c. The third edition, with an Appendix, containing the principles and practice of constructing the royal and mercantile navies. As invented and introduced by Sir Robert Seppings, Surveyor of his Majesty's navy. 4to. Plate and cuts. Folio atlas of plates. Lond. 1822
- KÖNIGLICHEN POLYTECHNISCHEN SCHULE zu Hannover, katalog der bibliothek. 8vo. Hannover, 1868

- KRAUSE, G. C. A. Der dünenbau auf den ostseeküsten Westpreussens. 8vo.

 Plates.

 Berlin, 1850
- KREPP, F. C. The sewage question: being a general review of all systems and methods hitherto employed in various countries for draining cities and utilising sewage; treated with reference to public health, agriculture, and national economy generally. Also a description of Captain Liernur's system for daily inoffensive removal of fæcal solids, fluids, and gases, by pneumatic force, combined with an improved method of sewage utilisation. Compiled for the information of sanitary and municipal authorities, and all interested in agricultural development. 8vo. Cuts.

 Lond. 1867

KRÖNCKE, —. Vide Wiebeking.

- KUHLMANN, F. Expériences chimiques et agronomiques.
 Silicatisation, ou application des silicates alcalins solubles au durcissement des pierres porcuses, des ciments, et des plâtrages, à la peinture, à l'impression, aux apprêts, etc.; suivi de rapports du jury de l'exposition universelle de 1855 et d'une commission speciale.
 3° édition. Tract. 8vo. vol. 182.
- KYNNERSLEY, T. C. S. Pratt's law of highways, with an introduction explanatory of the whole law upon the subject—votes, cases, and statutes. 9th edition. 8vo. Lond. 1863

L.

LA LANDE, J. le F. Astronomie. 4 vols. 4to. Plates. (Vols. 1-3, 3rd edition; vol. 4, 1st edition.)

LA PLATA. Vide MONETO.

LABOUR. Vide HARRISON.

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- LACRETELLE, S. Sur l'estimation des houillères. Tract. 8vo. vol. 196.

Saint-Étienne, 1870

- (Extrait du "Bulletin de l'Industrie Minérale.")

 LACROIX, E. Carnet de l'ingénieur. Recueil de tables, de formules et de renseignements usuels et pratiques sur les sciences appliquées à l'industrie. 4° édition. 12mo. Cuts.

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Paris, 1863

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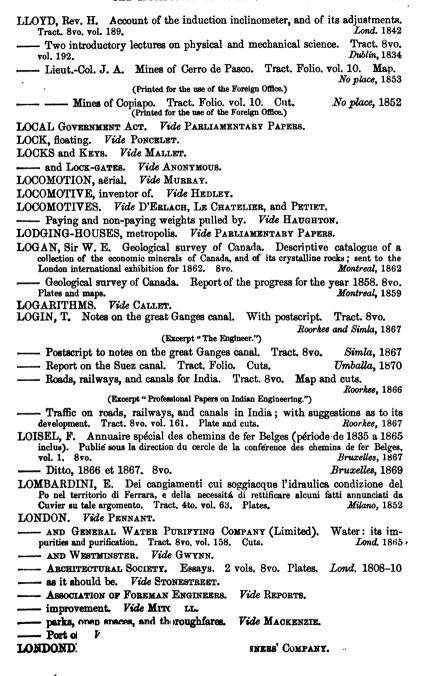
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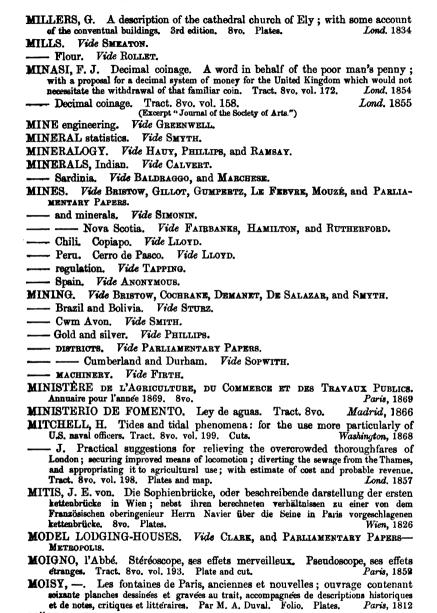
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MERRILL, W. E., Brevet Col., U.S.A. Iron truss bridges for railroads. Methods of calculating strains, with a comparison of the most prominent truss bridges, and new formulas for bridge computations; also, the economical angles for struts and ties. 4to. Plates and cuts. New York, 1870 MESNIL, —. Vide BUQUET.
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METAL ground by compression. Vide Francis.
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— of zinc. Vide MÜLLER.
Russian. Vide BARRY.
METEOROLOGIC Office of the Board of Trade, reports 1863-64. 8vo. Plates
and cuts. Lond. 1863-64
METEOROLOGICAL and astronomical notices. Vide Smyth.
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observations, Demerara. Vide Sandeman.
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— Washington. Vide DAVIS.
—— Committee of the Royal Society, report for the year ending 31st December, 1867. 8vo. Plates and cuts. Lond, 1869
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Lond. 1857- 62
—— OFFICE COMMITTEE. Charts showing the surface temperature of the South Atlantic ocean in each month of the year; compiled from board of trade registers, and the charts published by the Royal Meteorological Institute of the Netherlands. Folio. Plates.
METEOROLOGY. Vide ARAGO, BUCHAN, DREW, HUTCHISON, LOOMIS, PARLIA-
MENTARY PAPERS, POUILLET, SCOTT, and TOYNBEE.
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·
METROPOLITAN BOARD OF WORKS. Report of the main drainage committee on the engineer's connection with a contract for the execution of certain works at Odessa. Tract. 8vo. vol. 152. Lond. 1863
- Commission of Sewers. The calculations of Mr. Bazalgette as to the slope,
size, velocity of flow, and discharging power of the various intercepting lines of sewer north of the Thames, designed by Messrs. Bazalgette and Haywood, at each of the points where their dimensions and slope change, and at each of the points where the intercepted
sewers join. Tract. 8vo. vol. 152. Cuts. Lond. 1855
— DRAINAGE. Vide PARLIAMENTARY PAPERS.
—— Sanitary Commission. Second report of the commissioners appointed to inquire whether any and what special means may be requisite for the improvement of the health of the metropolis. 8vo. Cuts. Lond. 1848
Vide also Parliamentary Papers.
MEWBURN, F., jun. Impressions of the international exhibition of 1862. Durham, no date
·

MICALI, G. Monumenti inediti a illustrazione della storia degli antichi popoli Italiani. 8vo. Folio atlas of plates folding in 4to. Firenze, 1844 MICHEL, D. et Cie. Notice sur le ciment de la Valentine, ses avantages, ses emplois et l'économie qui en résulte. 8vo. Marseilles, 1860 MICHELOT, P. Experiences sur la résistance des matériaux a l'écrasement, Tracts. 8vo. vol. 181. Plate. Paris, 1863-68 MICHELOTTI, F. D. Sperimenti idraulici principalmente diretti a confermare la teorica e facilitare la practica del misurare le acque correnti. 4to. Plates. Torino, 1767 MICROSCOPICAL Society. Vide GLAISHER. MIÉGE, B. Guide pratique de télégraphie électrique, ou vade-mecum pratique a l'usage des employés des lignes télégraphiques, suivi du programme des connaissances exigées pour être admis au surnumérariat dans l'administration des lignes télégraphiques. Paris, no date 12mo. Cuts. Vide CANTU. MILAN. MILITARY DESPOTISM. Vide LILLEY. - INSTRUCTION. Vide ROCQUANCOURT. - POLICY of the British Empire. Vide Pasley. MILLE, - et CLAYE, A. D. Service municipal des travaux publics. Service des eaux d'égout. Compte rendu des travaux et des résultats. Rapports des ingénieurs. Folio. Atlas of plates. Paris, 1869 Service municipal des travaux publics. Service d'essai des eaux d'égoût. Compte rendu des essais d'utilisation et d'épuration. 4to. Atlas of plates. Paris, 1869 (Lithographed.) — Ligne de Paris à Brest. Réseau d'Orléans. Profil géologique. Notice. 4to. Folding maps. Paris, 1867 - Section de Rennes à Brest. Profil géologique. Notice. 4to. Folding Paris, 1865 maps. - Rapport sur le mode d'assainissement des villes en Angleterre et en Écosse. Tract. Folio. Paris, 1854 (Plates wanting.) - et THORÉ. Ligne de Paris à Brest. Section de Paris à Rennes. Profil géologique. 4to. Folding plates. Paris, 1864 - Ligne du Mans à Angers. Profil géologique. 4to. Folding maps. No place, 1863 MILLER, American. Vide HUGHES. - H. Edinburgh and its neighbourhood, geological and historical; with the geology of the Bass Rock. 2nd edition. 8vo. Plate and cuts. Edinburgh, 1869 - Footprints of the Creator, or the asterolepis of Stromness. With memoir by Louis Agassiz. 11th edition. 8vo. Cuts. Edinburgh, 1869 - Sketch-book of popular geology. 3rd edition. 8vo. Edinburgh, 1869 - The cruise of the Betsey, or a summer holiday in the Hebrides; with rambles of a geologist, or ten thousand miles over the fossiliferous deposits of Scotland. 7th edition. 8vo. Edinburgh, 1869 - The old red sandstone; or, new walks in an old field. To which is appended a series of geological papers, read before the Royal Physical Society of Edinburgh. 8vo. Edinburgh, 1859 - The testimony of the rocks; or, geology in its bearings on the two theologies. natural and revealed. 8vo. Plate and cuts. Edinburgh, 1869 W.A. Elements of chemistry: theoretical and practical. Part I. Chemical physics. 4th edition, with additions. 8vo. Cuts. Lond. 1867 W. H. A treatise on crystallography. 8vo. Plates.

Cambridge and Lond, 1839



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Lond. 1824

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 Lond. 1867
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 Barcelona, 1866
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 Tract. Folio. vol. 10.

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- MORIN, Gen. A. Des appareils de chauffage et de ventilation à employer dans les hôpitaux. Tract. 8vo. vol. 160. Plate. Paris, 1865 (Extrait des "Annales du Conservatoire Impérial des Arts et Métiers.")
- Des machines et appareils destinés à l'élévation des eaux. 8vo. Plates and cuts. Paris, 1863
- Études sur la ventilation. Tract. 8vo. vol. 182. Cuts. Paris, 1861 (Extrait des "Annaies du Conservatoire Impérial des Arts et Métiers.")
- Expériences sur les effets de ventilation produits par les cheminées d'appartements. Tract. 8vo. vol. 182. Cuts. Paris, 1863
- Rapport de la commission sur le chauffage et la ventilation des bâtiments du palais de justice, Tract. 4to, vol. 62, Plate, Paris, 1860
- MORISON, N. H. The second annual report of the provest to the trustees of the Peabody institute of the city of Baltimore. Tract. 8vo.

 Baltimore, 1869
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 Lond. 1848

 MORTAR. Vide LOBIOT.
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 Montreal, 1847
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Tract. 8vo. vol. 158.

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NATAL. Vide HOLLIDAY, and SHEPSTONE.

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- Mémoire sur les piles en charpente métallique des grands viaducs.

 Tract. 8vo. Plates.

 (Excerpt "Annales des Ponts et Chaussées," 1864.)

 Tract.
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- --- Note sur les ponts biais et les ponts courbes. Tract. 8vo. vol. 183. Plate.

 Paris, 1869
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NYSTROM, J. E. Informe al supremo gobierno del Perú sobre una espedicion al interior de la república. Tract. 8vo. vol. 165. Maps. Lima, 1868

0.

O'CALLAGHAN, F. L. Bidder's earthwork tables, intended and adapted for the use of the Public Works Department in India. Folding in 8vo. Roorkee, no date

OAKES, Lieut.-Col. W. H. Table of the reciprocals of numbers from 1 to 100,000; with their differences, by which the reciprocals of numbers may be obtained up to 10,000,000. 8vo.

Lond. 1865

OBSERVATORY, Adelaide. Vide Parliamentary Papers—South Australia.
OBSERVER. Thoughts on railways and projected railways. Tract. 8vo. vol. 179.

Liverpoot, 1833

- OGILVIE, J. The student's English dictionary, etymological, pronouncing, and explanatory: in which the words are traced to their ultimate sources, the root or primary meaning inserted, and the other meanings given fully according to the best usage. The pronunciation adapted to the best modern usage, by Richard Cull. 4to. Cuts.
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Oxford, 1848

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 Lond. 1867
- Ditto. 2nd edition. 8vo. Plates and cut. Lond. 1867
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PAGE, T. On submarine channel communication. Tract. 4to. vol. 63.

PAGET, F. A. On a new form of permanent magnet. Tract. 8vo. vol. 164.

(Excerpt "Philosophical Magazine.")

(Printed by order of the Metropolitan Board of Works.)

PAIN, A. C. Price-book, containing a description and the prices of the stone supplied by the Wardour (Chilmark) and Tisbury stone company (limited). 8vo. Map Lond. 1869

PAINTING on glass. Vide LE VIEIL.

- PALAA, G. Dictionnaire législatif et réglementaire des chemins de fer, contenant le résumé des documents officiels en vigeur et les principaux renseignements pratiques sur l'établissement, l'entretien, la police et l'exploitation des voies ferrées, personnel, exploitation technique, matériel, voie service commercial. 8vo. Paris, 1864
- PALACE OF WESTMINSTER, architect of. Vide BARRY.
- PALEOCAPA, P. Lettera in risposta al senatore Conte Luigi Sanvitale intorno al progetto d'una strada ferrata tra il golfo della Spezia e il Po per le valli di Magra e di Taro. Tract. 8vo. vol. 179.

 Torino, 1861

— Vide also CIALDI.

PALEONTOLOGY. Vide WEBSTER.

PALEY, F. A. A manual of Gothic mouldings: a practical treatise on their formations, gradual development, combinations, and varieties; with full directions for copying them, and for determining their dates. 8vo. Plates. Lond. 1845

PANAMA, Isthmus of. Vide Griswold.

PANICS, prevention. Vide A CIVIL ENGINEER.

PANIS, E. Recueil des pièces et documents officiels concernant l'exposition universelle de 1855. 4to. Paris, no date

PARALLAX. Experimental proofs that the surface of standing water is not convex but horizontal. Tract. 8vo. vol. 194. Cuts.

Lond. 1870

PARETO, R. Irrigation et assainissement des terres. Traité de l'emploi des eaux en agriculture. 4 vols. 12mo. 4to. atlas of plates. Paris, 1851

PARIS. Vide DEHARME, and SAY.

- improvement. Vide HOREAU.

PARIS, Vice-Admiral E. Catéchisme du marin et du mécanicien à vapeur, ou traité des machines à vapeur. De leur montage, de leur conduite, de la reparation de leurs avaries. 8vo. Cuts.

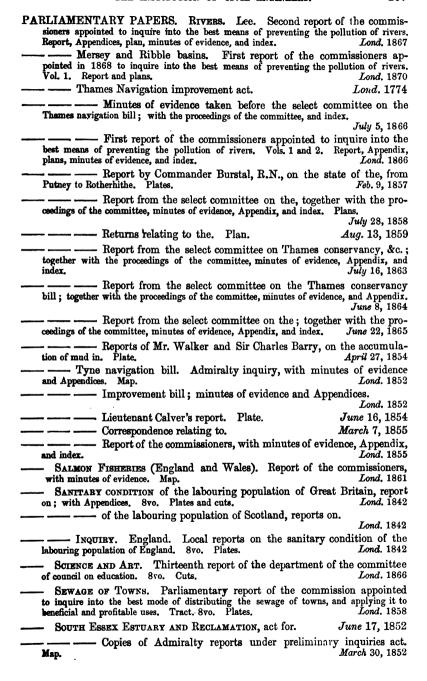
Parie, no date

PARIS, Vice-Admiral E. Projet de navires de mer à tourelles, plates.	8vo. Folio <i>Paris</i> , 1868
•	
	No place, 1867
(Extrait des "Comptes rendus des Séances de l'Académie des Sciences.")	F ,
PARKER, J. H. A concise glossary of terms used in Grecian, Ro	
and Gothic architecture. A new edition, revised. 12mo, Plates and cut	
Vide also Rickman.	id Lond. 1869
- T. N. An essay on the construction, hanging, and fastening of	oates 2nd
edition, improved and enlarged. 8vo. Plates.	Lond, 1804
PARKES, W. Bombay and Kurrachee tide-tables. Report on the	comparison
of the tables for 1867, with observations. Tract. 8vo. vol. 154.	Lond. 1867
	ninster, 1866
- Kurrachee harbour. Second report on the state of the hard	
	Bombay, 1864
— Memoir on Kurrachee harbour. Tract. Folio. Map.	Lond. 1868
• • • • • • • • • • • • • • • • • • •	inster, 1869
Report addressed to the Under-Secretary of State for India, or	
the port of Kurrachee; with an investigation into the laws of their m rules for their prediction. Tract. 8vo. vol. 154. Plates. Wes	tminster, 1866
- Report on the present state of Kurrachee harbour; with record	
	Bombay, 1868
	4to. Plates.
	mbridge, 1789
	ug. 10, 1870
	lug. 10, 1870
BARRACK and Hospital improvement commission. Suggesti	ons in regard Lond, 1864
to sanitary works required for improving Indian stations. Plates. —— Breakwaters, Plymouth Sound. Minute from Mr. S. Ben	
	Feb. 18, 1812
BRIDGES. Blackfriars, act for.	
Diribuili. Discontinuo, act for.	place or date
Chelsea. Return of all engineers' reports during the last	
	t three years Aug. 7, 1862
Chelsea. Return of all engineers' reports during the last	t three years Aug. 7, 1862 Appendix.
	t three years Aug. 7, 1862 Appendix. Session 1829
 Chelsea. Return of all engineers' reports during the last respecting the strength of. London: approaches, minutes of evidence relating to, and Rochester, a collection of statutes relating to. 	t three years Aug. 7, 1862 Appendix. Session 1829 Lond. 1733
 Chelsea. Return of all engineers' reports during the last respecting the strength of. London: approaches, minutes of evidence relating to, and Rochester, a collection of statutes relating to. Westminster, act for. 	t three years Aug. 7, 1862 Appendix. Session 1829 Lond. 1733 Lond. 1736
 Chelsea. Return of all engineers' reports during the last respecting the strength of. London: approaches, minutes of evidence relating to, and Rochester, a collection of statutes relating to. Westminster, act for. and new palace. Reports from the select commit 	t three years Aug. 7, 1862 Appendix. Session 1829 Lond. 1733 Lond. 1736
 Chelsea. Return of all engineers' reports during the last respecting the strength of. London: approaches, minutes of evidence relating to, and Rochester, a collection of statutes relating to. Westminster, act for. and new palace. Reports from the select commit with the minutes of evidence, Appendix, and index. Plates. April 1, May 29, and 	t three years Aug. 7, 1862 Appendix. Session 1829 Lond. 1733 Lond. 1736 tee; together U. Aug. 5, 1846
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— Chelsea. Return of all engineers' reports during the last respecting the strength of. — London: approaches, minutes of evidence relating to, and — Rochester, a collection of statutes relating to. — Westminster, act for. — and new palace. Reports from the select commit with the minutes of evidence, Appendix, and index. Plates. — bridge bill. Minutes of evidence, with the proceed committee. — new bridge. Report of the commissioners appoint sider the best and most convenient site for. Plates. — Report from the select committee on, together with of evidence, and Appendix. Plates. — Report from the select committee on, together with ceedings of the committee, and minutes of evidence. Plans. — temporary bridge bill. Report from the select together with the proceedings of the committee, minutes of evidence, Appendix.	t three years Aug. 7, 1862 Appendix. Session 1829 Lond. 1733 Lond. 1736 tee; together I Aug. 5, 1846 dings of the June 16, 1853 nted to con- Lond. 1851 the minutes July 11, 1844 ith the pro- Aug. 6, 1857 committee; dix, and index. July 25, 1850

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Companies act and amended act. Tracts. Folio. vol. 12. Aug. 7, 1862; Aug. 6, 1867
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——————————————————————————————————————
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TELEGRAPH, submarine: correspondence on the convention with the French government. Aug. 12, 1859
,
——————————————————————————————————————
Returns of British. July 10, 1868
——————————————————————————————————————
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Bruxelles, 1837
——————————————————————————————————————

PARLIAMENTARY PAPERS.—CANADA. Journal of the Legislative Assembly of the province. Vol. 16. Nos. 2, 5, and 7. Appendices 2-4, 13-20, and 29-43. 3 vols. 8vo. Maps. Toronto, 1858
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——————————————————————————————————————
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———— Report from engineer. Aug. 1867
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inquire into charges against waterworks engineer; together with minutes of evidence and Appendix. Adelaide, 1867

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 Lond. no date
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 Lond. 1853
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 Lond. 1869

(Reprinted from the "Quarterly Journal of Science.")

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PAYNE v. BANNER. The correspondence and depositions taken in evidence in the above cause. Tract. 8vo. vol. 201. Lond. 1843

PEABODY, G. Vide WALLIS.

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- ---- of the city of Baltimore. Address of the president, and reports of the treasurer and provost. Tracts. 8vo.

 Baltimore, 1869-70
 - Vide also Anonymous, and Morison.
- PEACOCK and BUCHAN. Established compositions for the bottoms of iron, wood, coppered, or zinced vessels, &c., also for preserving railway sleepers, telegraph and fence posts, &c. 7th edition. 12mo. Plate and cuts. Exeter, 1870
- ----, W. A., and OTHERS. The report of the committee of health of the commissioners of sewers of the city of London, on the report of the medical officer of health of the city of London, of November 6, 1849. 8vo.

 Lond. 1850

- PEAKE, J. Rudiments of naval architecture: an exposition of the elementary principles of the science, and their practical application to naval construction; compiled for the use of beginners. 3rd edition, corrected. 12mo. Plates and cuts. Lond. 1867 (Weale's Rudimentary Series.)
- PEARSE, J. B. Vide TUNNER.
- PEARSON, C. H. A short answer to Mr. Freeman's strictures in the "Fortnightly Review" on the "History of England during the Early and Middle Ages."

 Tract. 8vo. Vol. 167.

 Lond. 1868
- PEAT. Vide RENNIE.
- PEAT-MOSS. Vide STEELE.
- PECLET, E. Traité élémentaire de physique. 2º édition. 2 vols. 8vo.
 Plates. Paris, 1832
- PELOUZE, J., and FREMY, E. Traité de chimie générale, analytique industrielle et agricole. 6 vols. 8vo. Cuts. Paris, 1865
- PENDULUM experiments. Vide Bunt, Conder, Galbraith and Haughton, and Talbot.
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- PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY. A statement of the position and operations of the company, from its incorporation to the present time. Tract. 8vo. vol. 177. Map.

 Lond. 1860
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 Paris, 1866-67
- PERIGAL, H., Jun. On the probable mode of constructing the pyramids. Tract.

 8vo. vol. 193. Plate and cuts.

 Lond. 1844

 (Excerpt "Philosophical Magazine.")
- PERMANENT WAY COMPANY. Observations upon opinions expressed at the meeting of the Institution of Civil Engineers, on Tuesday, Feb. 17th, 1857. Tract. 8vo. vol. 179.

 Lond. 1857
- PERNOT, L. J. Guide pratique du constructeur. Dictionnaire des mots techniques employés dans la construction, à l'usage des architectes, propriétaires, entrepreneurs de maçonnerie, charpente, serrurerie, couverture, etc. Renfermant les termes d'architecture civile, l'analyse des lois de voirie, des bâtiments et de desséchement. Nouvelle édition, par C. M. Tronquoy. 12mo. Paris, no date
- PERRONNE, E. Guide pratique pour le tracé des courbes sur le terrain. 12mo.

 Cuts.

 Paris, 1865
- PERSPECTIVE. Vide Pyne, and RITTINGER.
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 Tract. 8vo. vol. 158. Cut.

 No place, 1865
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 Lond. 1867

- PETIET, J. Exposition universelle de Londres, 1862. Compagnie du chemin de fer du Nord. Notice sur les trois types de locomotives exposés. Tract. 4to. vol. 62. Plates. Paris, 1862
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 Tract. 8vo. vol. 188.

 Toulouse, no date

 (Extrait des "Mémoires de l'Académie des Sciences de Toulouse.")
- PETO, Sir S. M., Bart. London, Chatham, and Dover railway: report of proceedings at a meeting of the constituents of, held at Bristol. Tract. 8vo. vol. 167.

 Lond. 1866
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 Plates.

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PETROLEUM. Vide Bodde.

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 (Excerpt "Proceedings of the Yorkshire Philosophical Society.")
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- Report to the local board, Canterbury, on the house connections, &c. Tract. Folio. vol. 12. Canterbury, 1868

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On the motion of fluids in pipes. Tract. 8vo. vol. 158. Lond. 1852 (Reprinted from the "Journal of Gas Lighting.")

- Specification of railways. Tract. 4to. Plate. Lond. 1855

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 Liege, 1852-54

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 4to. Plates.

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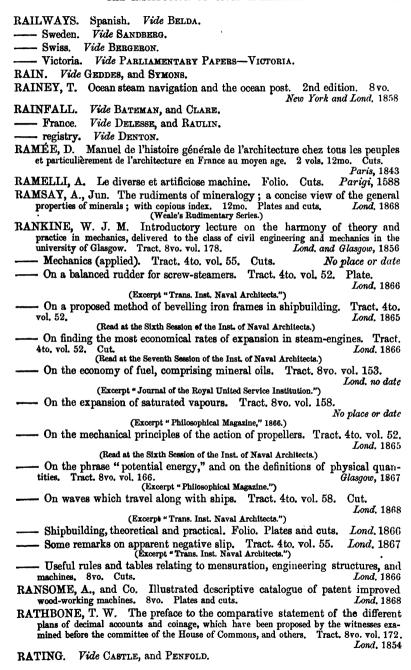
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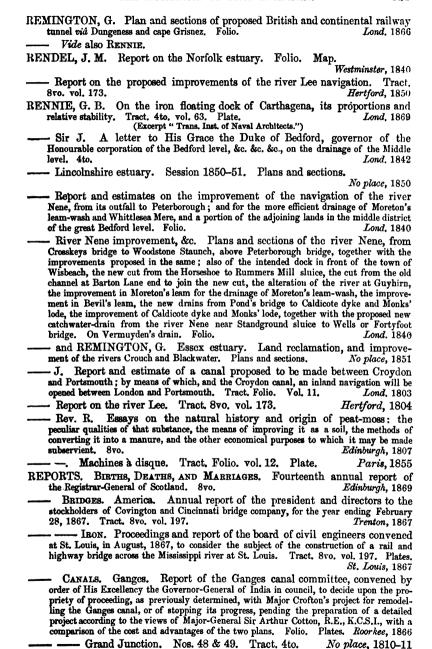


- RAULIN, V. Observations pluviomètriques faites dans le sud-ouest de la France (Aquitaine et Pyrénées) de 1714 à 1860; suivies des grandes séries de Montpelier, Paris, Genève et le Grand-Saint-Bernard, et des résultats de quelques observations pluviomètriques par M. Abria. 8vo. Cut. Bordeaux, 1864 (Bound with) Tableau comparatif des observations pluviomètriques faites dans le sudouest de la France en 1865. 8vo. Bordeaux, no date RAWLINSON, R. Report to the local board of health for the borough of Tynemouth, on completion of the public sewerage-works. Tract. 8vo. vol. 152. North Shields, 1857 - Report upon inquiry as to the truth or otherwise of certain allegations contained in a memorial from the vicar and other inhabitants of Barking, in the county of Essex, calling attention to the pollution of the river Thames by the discharge of sewage through the northern main outfall sewer of the Metropolitan Board of Works; together with minutes of proceedings, abstract, and index. Tract. Folio. vol. 12. Map. Lond. 1869 - Reports on the sewerage and drainage of the district within the jurisdiction of the Chorley improvement commissioners. Tract. 8vo. vol. 152. Chorley, 1857 - Swansea local board of health. Report on the completion of the works of water-supply. Tract. 8vo. vol. 152. Swansea, 1868 - Waterworks, borough of Liverpool. Report on the proposed supply of water to Liverpool, from Bala lake, in North Wales. Tract. 8vo. vol. 151. Map. Lond. 1866 - T. E. Papers and reports read before the philosophical institute and the Royal Society of Victoria, and other documents. 8vo. Plates. Melbourne, 1865 RECIPROCALS of numbers. Vide OAKES. RECIPROCATION, polar. Vide MARTIN. RECLAMATION of land in tidal rivers. Vide BOUNICEAU. - of land, Bombay. Vide DUCAT. REDESDALE, Lord. Vide France. REDTENBACHER, F. Theorie und bau der turbnen und ventilatoren. 8vo. Plates. Folio atlas of plates. Mannheim, 1844
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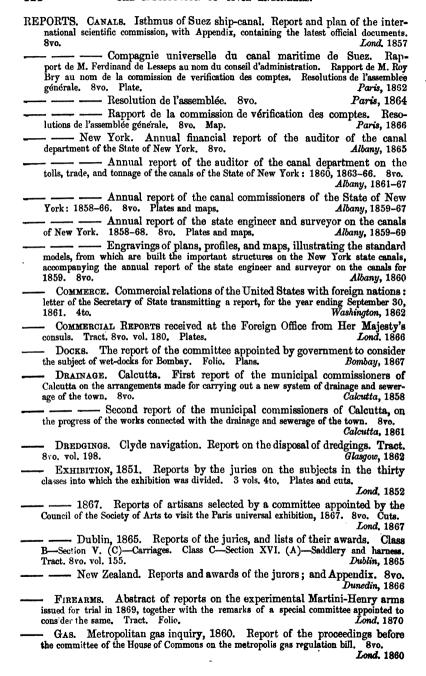
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 (Excerpt "Annales des Ponts et Chaussees.")
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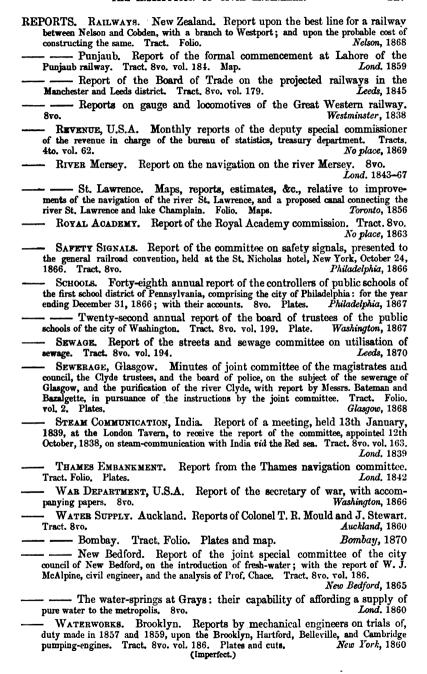
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struction of the, with accompanying documents. Tract. 8vo. vol. 170. Washington, 1866
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vised and enlarged. 8vo. Plates and cuts. Lond. 1867 —— Captain J. Harbour of refuge and docks at Newhaven, as introduced this
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 ROBERTSON, G. Recent marine, hydraulic, and sanitary engineering in Scotland: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 161. Edinburgh, 1867 — The science education movement: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 167. Edinburgh, 1868 — Tide signals as well as storm signals: a note on the recent high-tide on the east coast of Britain. Tract. 8vo. vol. 168. Plate. Edinburgh, 1868 — J. The elements of astronomy, &c. To which is annexed a treatise of projection in general. The whole translated from the French of M. De la Caille. 8vo. Plates. Lond. 1750 ROBIN, C. Histoire illustrée de l'exposition universelle par catégories d'industries avec notices sur les exposants. 8vo. Paris, 1856 ROBINS, B. New principles of gunnery: containing the determination of the force of gunpowder, and an investigation of the difference in the resisting power of the sir to swift and slow motions; with several other tracts on the improvement of practical gunnery. A new edition, by Charles Hutton. 8vo. Plates and cuts. Lond. 1805 ROBINSON, J. An easy mode of ascertaining the capabilities of soil, tests for
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ROBERTSON, G. Recent marine, hydraulic, and sanitary engineering in Scotland: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 161. — The science education movement: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 167. — Tide signals as well as storm signals: a note on the recent high-tide on the east coast of Britain. Tract. 8vo. vol. 168. Plate. — J. The elements of astronomy, &c. To which is annexed a treatise of projection in general. The whole translated from the French of M. De la Caille. 8vo. Plates. — Lond. 1750 ROBIN, C. Histoire illustrée de l'exposition universelle par catégories d'industries avec notices sur les exposants. 8vo. ROBINS, B. New principles of gunnery: containing the determination of the force of gunpowder, and an investigation of the difference in the resisting power of the air to swift and slow motions; with several other tracts on the improvement of practical gunnery. A new edition, by Charles Hutton. 8vo. Plates and cuts. Lond. 1805 ROBINSON, J. An easy mode of ascertaining the capabilities of soil, tests for the purity of artificial manures, mode of preserving the fertilising contents of a dungheap from escape; with other information of great importance to the farmer, to the purchaser of land, and to the emigrant. New edition. Tract. 8vo. vol. 175. Lond. 1863
 ROBERTSON, G. Recent marine, hydraulic, and sanitary engineering in Scotland: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 161. — The science education movement: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 167. — Edinburgh, 1868 — Tide signals as well as storm signals: a note on the recent high-tide on the east coast of Britain. Tract. 8vo. vol. 168. Plate. — J. The elements of astronomy, &c. To which is annexed a treatise of projection in general. The whole translated from the French of M. De la Caille. 8vo. Plates. ROBIN, C. Histoire illustrée de l'exposition universelle par catégories d'industries avec notices sur les exposants. 8vo. ROBINS, B. New principles of gunnery: containing the determination of the force of gunpowder, and an investigation of the difference in the resisting power of the air to swift and slow motions; with several other tracts on the improvement of practical gunnery. A new edition, by Charles Hutton. 8vo. Plates and cuts. ROBINSON, J. An easy mode of ascertaining the capabilities of soil, tests for the purity of artificial manures, mode of preserving the fertilising contents of a dungheap from escape; with other information of great importance to the farmer, to the purchaser of land, and to the emigrant. New edition. Tract. 8vo. vol. 175. Lond. 1863 — T. R., and GRUBB, J. Description of the great Melbourne telescope. Tract. 4to. vol. 62. Plates.
ROBERTSON, G. Recent marine, hydraulic, and sanitary engineering in Scotland: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 161. — The science education movement: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 167. — Edinburgh, 1868 — Tide signals as well as storm signals: a note on the recent high-tide on the east coast of Britain. Tract. 8vo. vol. 168. Plate. — J. The elements of astronomy, &c. To which is annexed a treatise of projection in general. The whole translated from the French of M. De la Caille. 8vo. Plates. ROBIN, C. Histoire illustrée de l'exposition universelle par catégories d'industries avec notices sur les exposants. 8vo. ROBINS, B. New principles of gunnery: containing the determination of the force of gunpowder, and an investigation of the difference in the resisting power of the air to swift and slow motions; with several other tracts on the improvement of practical gunnery. A new edition, by Charles Hutton. 8vo. Plates and cuts. ROBINSON, J. An easy mode of ascertaining the capabilities of soil, tests for the purity of artificial manures, mode of preserving the fertilising contents of a dungheap from escape; with other information of great importance to the farmer, to the purchaser of land, and to the emigrant. New edition. Tract. 8vo. vol. 175. Lond. 1863 — T. R., and GRUBB, J. Description of the great Melbourne telescope. Tract. 4to. vol. 62. Plates. (Excerpt "Phil. Trans.")
 ROBERTSON, G. Recent marine, hydraulic, and sanitary engineering in Scotland: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 161. — The science education movement: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 167. — Edinburgh, 1868 — Tide signals as well as storm signals: a note on the recent high-tide on the east coast of Britain. Tract. 8vo. vol. 168. Plate. — J. The elements of astronomy, &c. To which is annexed a treatise of projection in general. The whole translated from the French of M. De la Caille. 8vo. Plates. ROBIN, C. Histoire illustrée de l'exposition universelle par catégories d'industries avec notices sur les exposants. 8vo. ROBINS, B. New principles of gunnery: containing the determination of the force of gunpowder, and an investigation of the difference in the resisting power of the air to swift and slow motions; with several other tracts on the improvement of practical gunnery. A new edition, by Charles Hutton. 8vo. Plates and cuts. ROBINSON, J. An easy mode of ascertaining the capabilities of soil, tests for the purity of artificial manures, mode of preserving the fertilising contents of a dungheap from escape; with other information of great importance to the farmer, to the purchaser of land, and to the emigrant. New edition. Tract. 8vo. vol. 175. Lond. 1863 — T. R., and GRUBB, J. Description of the great Melbourne telescope. Tract. 4to. vol. 62. Plates.
ROBERTSON, G. Recent marine, hydraulic, and sanitary engineering in Scotland: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 161. — The science education movement: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 167. — Tide signals as well as storm signals: a note on the recent high-tide on the east coast of Britain. Tract. 8vo. vol. 168. Plate. — J. The elements of astronomy, &c. To which is annexed a treatise of projection in general. The whole translated from the French of M. De la Caille. 8vo. Plates. ROBIN, C. Histoire illustrée de l'exposition universelle par catégories d'industries avec notices sur les exposants. 8vo. Paris, 1856 ROBINS, B. New principles of gunnery: containing the determination of the force of gunpowder, and an investigation of the difference in the resisting power of the air to swift and slow motions; with several other tracts on the improvement of practical gunnery. A new edition, by Charles Hutton. 8vo. Plates and cuts. Lond. 1805 ROBINSON, J. An easy mode of ascertaining the capabilities of soil, tests for the purity of artificial manures, mode of preserving the fertilising contents of a dungheap from escape; with other information of great importance to the farmer, to the purchaser of land, and to the emigrant. New edition. Tract. 8vo. vol. 175. Lond. 1863 — T. R., and GRUBB, J. Description of the great Melbourne telescope. Tract. 4to. vol. 62. Plates. (Excerpt "Phil. Trans.") ROB ROY. Vide Macgregore. ROCKS. Vide D'Orbigory.
ROBERTSON, G. Recent marine, hydraulic, and sanitary engineering in Scotland: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 161. — The science education movement: an address to the Royal Scottish Society of Arts. Tract. 8vo. vol. 167. — Tide signals as well as storm signals: a note on the recent high-tide on the east coast of Britain. Tract. 8vo. vol. 168. Plate. — J. The elements of astronomy, &c. To which is annexed a treatise of projection in general. The whole translated from the French of M. De la Caille. 8vo. Plates. ROBIN, C. Histoire illustrée de l'exposition universelle par catégories d'industries avec notices sur les exposants. 8vo. Paris, 1856 ROBINS, B. New principles of gunnery: containing the determination of the force of gunpowder, and an investigation of the difference in the resisting power of the air to swift and slow motions; with several other tracts on the improvement of practical gunnery. A new edition, by Charles Hutton. 8vo. Plates and cuts. Lond. 1805 ROBINSON, J. An easy mode of ascertaining the capabilities of soil, tests for the purity of artificial manures, mode of preserving the fertilising contents of a dungheap from escape; with other information of great importance to the farmer, to the purchaser of land, and to the emigrant. New edition. Tract. 8vo. vol. 175. Lond. 1863 — T. R., and GRUBB, J. Description of the great Melbourne telescope. Tract. 4to. vol. 62. Plates. (Excerpt "Phil. Trans.") ROB ROY. Vide Macgregor.

- ROCKS, testimony of the. Vide MILLER.
- treatise on. Vide PINKERTON.
- ROCOUR, G. Revues étrangères. The iron trade review. Meeting trimestriel du nord de l'Angleterre, tenu à Newcastle le 29 Septembre, 1868. Tract. 8vo. vol. 174.

 Liége, no date
- ROCQUANCOURT, J. Cours élémentaire d'art et d'histoire militaires, à l'usage des élèves de l'École Royale spéciale militaire. 2° édition. 2 vols. 8vo. Paris, 1831
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 Boston, Mass., 1861
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- --- Vide also Bunsen.

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 Braunschweig. 1885. RUMBALL, A. Report on proposed public works in southern Russia; Taganrog, Rostoff, Novastcherkask. Tract. 8vo. vol. 161. Map. Lond. 1867 Vide Anonymous. RUMNEY MARSH. RUNIC MONUMENTS of Scandinavia and England. Vide STEPHENS. RURAL ECONOMY. Vide BOUSSINGAULT. RUSKIN, J. The stones of Venice. 3 vols. 8vo. 2nd edition. Plates and cuts. Lond. 1858-67
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RUSSELL, J. S. On the application of the inventions of Watt to modern steam-

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navigation. Tract. 8vo. vol. 153.

No place, 1867

RUSSELL, W. H. The Atlantic telegraph. 4to. Plates.

Lond. 1865

RUSSIA, geology. Vide MURCHISON.

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S.

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SALMON-FISHERIES. Vide PARLIAMENTARY PAPERS.

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SAMUDA, J. D'A. Speeches in the House of Commons, during the sessions of 1866-7-8, on the navy fortifications and postal services. Tract. 8vo. vol. 168.

Lond. no date

SAMUEL, Brothers. Wool and woollen manufactures of Great Britain: an historical sketch of rise, progress, and present position. 8vo. Lond. 1859

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SANDBERG, C. P. Light railways in Sweden. Tract. 4to. Map.

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Lond. 1869

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 Plates. Zaragoza, 1796
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- SAY, H. Études sur l'administration de la ville de Paris, et du département de la Seine. 8vo. Paris, 1846
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 Bruxelles, 1853
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 Paris, 1864
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Braunschweig,1867

SCHILLING, N. H. Handbuch für steinkohlengas-beleuchtung. Mit einer geschichte der gasbeleuchtung von professor Dr. F. Knapp. 4to. Plates and cuts.

München, 1860

- Traité d'éclairage par le gaz. Traduit de l'Allemand par Ed. Servier. 4to. Plates and cuts. Munich, 1868
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SCHLAGINTWEIT, Dr. H. Ueber meszinstrumente mit constanten winkeln (Linsen-und prismenporrhometer). Tract. 8vo. vol. 193. Plate and cuts.

Augsburg, 1849

SCHLESWIG, Prussians in. Vide Anonymous.

SCHŒDLER, F. Elements of chemistry. Edited, from the fifth German edition, by Henry Medlock. 8vo. Cuts. Lond. 1851

SCHOOL, Bristol diocesan trade. Vide MOSELEY.

SCHOOLS, Philadelphia. Vide REPORTS.

- Washington. Vide REPORTS.

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Bruxelles, no date

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- —— Sewage irrigation; being a second letter addressed to the Hon. the Lord Provost, on the sewerage of the city of Glasgow, and purification of the river Clyde. Tract. 8vo. vol. 169.

 Lond. 1868
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— duplex. Vide Rigg.

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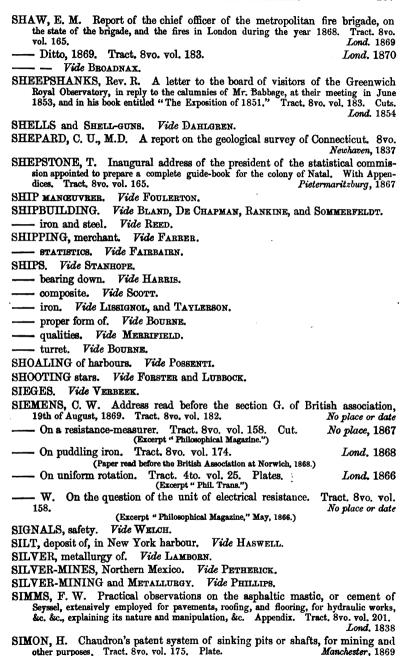
 Lond, 1825
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 8vo.

 Lond. 1834

SELVA, J. A. Vide ZANOTTO.
SELWYN, J. H., Captain R.N. On the progress of liquid fuel. 'Tract. 4to. vol. 62. Lond. 1869
(Excerpt " Trans. Inst. Naval Architects.")
SENATE, U.S.A. Railroad, Union Pacific, and telegraph line, act for.
July 1, 1862 ————————————————————————————————————
SEPPINGS, Sir R. A letter on the circular sterns of ships of war. Tract. 4to. vol. 64. Plates. Lond. 1822
— Vide Knowles.
SEPULTURE, extramural. Vide GENERAL BOARD OF HEALTH.
SERRURE, L. Notice historique sur la tour de l'église de Notre-Dame d'Anvers. Folio. Plates. Anvers, 1840
SERVIER, E. Vide Schilling.
SEWAGE. Vide LATHAM.
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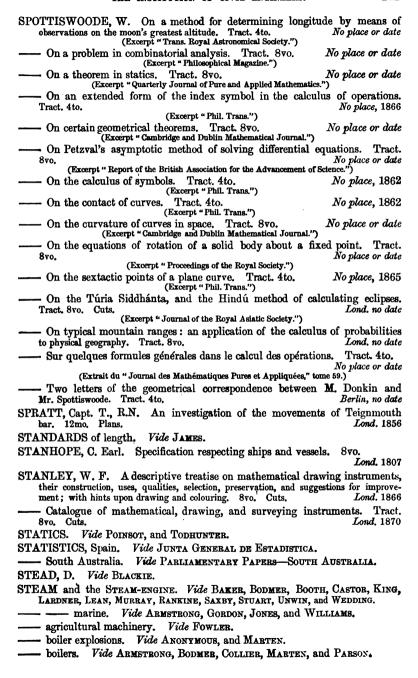
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TERRA-COTTA. Vide Gruner.

- TEXIER, E. Les hommes de la guerre d'Orient. L'amiral Napier. Tract. 8vo. vol. 183. Cut. Paris, 1854
- THAMES EMBANKMENT. Vide Lane, Parliamentary Papers, Reports, and SEWELL.
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THEODOSIUS. Vide HUNT.

THERMODYNAMICS. Vide TAIT.

THERMOTHERAPEIA. Vide WILSON.

- THEVENIN, E. Conferences de l'association polytechnique. 12mo. Paris, 1860
 THIERRY, —. Traité des cinq ordres d'architecture et des premiers éléments de construction. Tract. 4to. vol. 59. Plates. Paris, 1838
- THIRION, C. Les publications industrielles en France. Appel a la collaboration de tous dans le journal, "La propagation industrielle." Tract. 8vo. vol. 180.

 Paris, 1867
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 Lond. 1845
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 8vo.

 Roorkee, 1863
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V.

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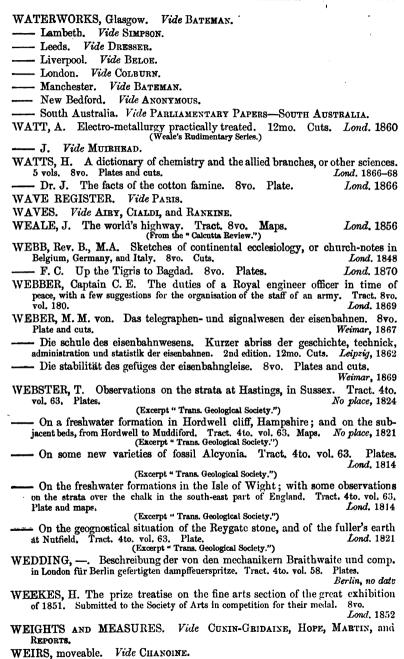
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- WHEATSTONE, C. The Universal Private Telegraph company. Professor Wheatstone's patents. Tract. 8vo. vol. 166. Cuts. Lond. no date
- WHEELER, W. H. Remarks on the state of the outfall of the river Witham, with suggestions for its improvement. Tract. 8vo. vol. 159. Maps. Boston, 1867
- WHEEL-TYRES. Vide BODMER.
- WHEELS, elastic. Vide SMITH.
- —— water. Vide Unwin.
- WHEWELL, Rev. W., D.D. Address delivered in the senate-house at Cambridge, on the occasion of the opening of the third general meeting of the British association of the advancement of science. Tract. 8vo. vol. 192. Cambridge, 1833
- —— Directions for tide observations. The diurnal difference of the tides. Tract. 8vo. vol. 192. Cut.

 Lond. no date
- Newton and Flamsteed. Remarks on an article in No. CIX. of the "Quarterly Review," second edition. To which are added the letter, occasioned by a note in No. CX. of the "Review." Tract. 8vo. vol. 192. Cambridge and Lond. 1836
- Novum organon renovatum; being the second part of the philosophy of the inductive sciences. 3rd edition, with large additions. 8vo. Lond. 1858
- Of a liberal education in general; and with particular reference to the leading studies of the university of Cambridge. 8vo. Lond. 1845
- On the free motion of points, and on universal gravitation, including the principal propositions of books I. and III. of the Principla; the first part of a new edition of a treatise on dynamics.
 8vo.
 Cambridge, 1832
- On the philosophy of discovery, chapters historical and critical. 8vo.

 Lond. 1860
- The doctrine of limits, with its applications: namely, conic sections, the first three sections of Newton, the differential calculus. 8vo. Cuts. Cambridge, 1838
- --- The mechanical Euclid, containing the elements of mechanics and hydrostatics demonstrated after the manner of the elements of geometry. 4th edition. 12mo. Cuts.

 Cumbridge, 1843*
- ---- Thoughts on the study of mathematics, as a part of a liberal education Tract. 8vo. vol. 187. Cambridge, 1835
- WIIISHAW, F. On the application of heated currents to manufacturing and other purposes. Tract, 4to, vol. 58. Plate and cut. Lond, 1848

WHISTLER, G. W., Jun. Report upon the use of anthracite coal in locomotive engines on the Reading railroad. Tract. 8vo. vol. 199. Baltimore, 1849 WHITAKER, W. Note on the surface-geology of London; with lists of wells and borings, showing the thickness of the superficial deposits. Tract. 8vo. vol. 161. Lond, 1867 - On geology and consumption. Tract. 8vo. vol. 175. Hertford, 1869 (Extracted from the "Geological Magazine.") On subaërial denudation, and on cliffs and escarpments of the chalk and the lower tertiary beds. Tract. 8vo. vol. 164. Cuts. Hertford, 1867 Vide also Bristowe. WHITE, J. An essay on the formation of harbours of refuge, and the improvement of the navigation of rivers and seaports, by the adoption of moored floating constructions, as breakwaters of the force of the sea-tides and currents on seacoasts, and as regulating the course, depth, and flow of tidal and upland waters in rivers. 8vo. Plates. Lond, 1840 - W. Papers on railway and electric communications, arctic and antarctic explorations, and the sanitary movement. 8vo. Edinburgh, 1850-51 WHITWORTH. J. Miscellaneous papers on mechanical subjects. On the penctration of armour-plates, with long shells of large capacity fired obliquely, and report of the discussion. Tract. 4to. vol. 61. Plates. Manchester, 1869 (Read before the Mechanical Section of the British Association at Exeter.) · Papers on rifled artillery. Tract. 4to. vol. 61. Lond, and Manchester, 1869 - The report of the Armstrong and Whitworth committee, with a letter Manchester, 1866 thereon to Earl de Grey, and Appendices. 4to. Plates. and WALLIS. The industry of the United States in machinery, manufactures, and arts. 12mo. Lond, and New York, 1854 (Routledge's Series.) - R. A plan of the intended navigable canal, from the Coventry canal, near Griff. in the county of Warwick, to the coal-mines at Measham, Oakthorp, Donisthorp, and Ashby-Woulds, in the counties of Leicester and Derby. Tract. Folio. vol. 10. Lond. 1781 - Report to the worshipful committee for Thames and canal navigation. Tract. Folio. No place, 1780 - R. P. Ballière's New South Wales gazetteer and road guide; containing the most recent and accurate information as to every place in the colony. Maps. 8vo. Sydney, 1866 WICKENS, W. The improvement of the public roads urged, during the existing dearth of employment for the poor. Appendices. Tract. 8vo. vol. 201. Lond, 1821 WICKSTEED, T. Preliminary report upon the sewerage, drainage, and supply of water for the borough of Leicester; and a report upon the analysis of the sewagewater, and the water of the streams in the neighbourhood of Leicester. By Arthur Aikin and Dr. Alfred Swaine Taylor. Tract. 8vo. vol. 152. Lond. 1850 WIEBE, E. Die reinigung und entwässerung der stadt Danzig. 8vo. Folio atlas of plates. Berlin, 1865 - Ueber die reinigung und entwässerung der stadt Berlin. 2 vols. 8vo. Cuts. Folio atlas of plates. Berlin, 1861 WIEBEKING, C. F. de. Analyse descriptive, historique et raisonnée des monuments de l'antiquité, des edifices les plus remarquables, etc. Vols. 1, 2, Italie; vol. 3, France. 4to. Plates. Folio atlases of plates. Munich, 1838-39 - C. F. R. von. Von dem einfluss der bauwissenschaften auf das allgemeine wohl und die civilisation, vierte abhandlung; insbesondere von dem, welchen sie

auf die gewinnung des bodens, auf die sicherheit des landes und auf den wohlstand des

- und KRÖNCKE. Allgemeine auf geschichte und erfahrung gegründete theoretisch-practische wasserbaukunst. 4 vols. 4to. Plates. Darmstadt, 1798-1805 (Plates wanting.)

jetzigen Königreichs der Niederlande. 8vo. Map.

